

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

JUNE 15, 1949

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FLOWER—VEGETABLE

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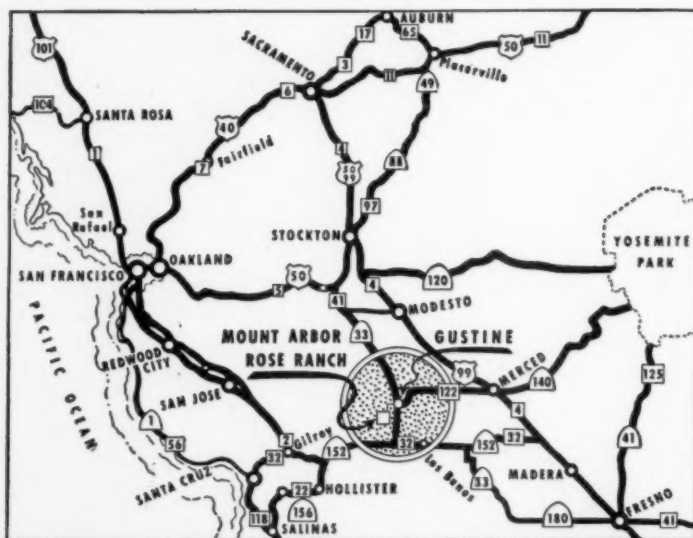
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Mount Arbor Nurseries

• SHENANDOAH IOWA •

One of America's Foremost Nurseries

AMERICAN NURSERYMAN

[Registered U. S. Patent Office]

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

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JULY 15 SPECIAL A. A. N. PRE-CONVENTION NUMBER

Now reserving space and setting advertisements.

See page 13 for full details of the year's outstanding issue.

For the next regular issue, July 1, forms close June 13.

ROSA MULTIFLORA JAPONICA

We are now booking orders for Multiflora Rose for Fall, 1949, delivery. This past year we found it impossible to supply many of our regular customers due to the scarcity of this item.

We are offering stock as follows:

FOR LIVING FENCES AND SOIL-EROSION CONTROL

Row run, 1-year seedlings, 9 to 18 ins., thorny type, especially adapted for this purpose.

\$18.00 per 1000.
\$150.00 per 10,000.

FOR ROSE UNDERSTOCK

Graded, 1-year seedlings, selected straight shanks for budding.

	Per 1000
3 to 4 mm.	\$25.00
4 to 6 mm.	30.00
6 to 8 mm.	35.00

Orders will be accepted until our present crop is sold, and delivery can be made starting November 10. Fall delivery is advised so that plantings may be made early in the spring or in the fall if possible.

ALL PRICES QUOTED F.O.B.,
MANCHESTER, CONNECTICUT

C. R. BURR & COMPANY, Inc.

Manchester, Conn.

"Growing Since '98"



AMERICAN NURSERYMAN

F. R. KILNER, *Editor and Publisher*

Joan L. Kilner, *Assistant Editor*

Editorial

STOCK STILL SHORT.

The economists at Washington who predicted vast unemployment at the end of the war have as company in their error those nurserymen who were apprehensive about the overproduction of nursery stock. The latter have several things to be said in their behalf. One is that the winter injuries of the past two years removed from the market rather large quantities of material, particularly evergreens. Second, the supply of nursery labor did not increase nearly so rapidly as was expected, still being short in some localities. The demand from the public has continued strong, with no abatement this spring in spite of disinflation or recession in some industries.

The fact is that there are few items which can be propagated rapidly enough to increase the supply greatly in a year or two in the face of current demand. The greatest gain in business since the close of the war has been experienced by landscape nurserymen, rather than the mail-order or store trade, and larger sizes are required in their operations. On this account, evergreens generally are two years away from anything like an adequate supply; the smaller sizes do not have a chance to grow into taller grades because of the buyers' insistence on having the plants now.

Ornamental shrubs have had an unusual call the past spring, according to nurserymen in several areas. This is not altogether due to the shortage of evergreens or to the public's disinclination to pay the high prices asked for junipers, yews and the like. Houses of the ranch type and low modern design call for low shrubs, while the garden clubs' advocacy of mixed plantings of shrubs and evergreens is showing effect. Hence it seems likely that deciduous stock will have another two or three years of good demand, at least, before evergreens are again in such supply and at such price as to resume their popular place.

Fruit trees were the only items generally plentiful the past spring, and they were no drug on the market. They are not likely to be, in view of the return of seedling plantings to more nearly normal levels after the

stimulus of the war. Roses proved not in the oversupply some anticipated, and good stock, particularly in No. 1 size, seemed to clear out generally.

While the reports from the landscape firms are not in yet, they seem to have all they could do, being still behind in the training of foremen so that the number of planting crews could be increased. The probable continuance of residential building on a large scale for several years, plus the continued demand for revamped plantings about old dwellings, offers a sufficient public demand to take care of the nursery stock likely to be ready for market in the near future.

TIME IS WORTH MONEY.

At currently hourly rates of pay, time is indeed worth money, whether in the field, out on the job or in the office. The employer recognizes this only too well as he makes up his pay roll, and his business operations are sometimes dependent upon the production he can obtain in the time he must pay for. In factory operations, and particularly production assembly lines, cost experts can measure production in terms of time so that output can be calculated almost as accurately as on the old-time piecework basis. In the small organization, where employees have varied duties and supervision cannot be so constant, production schedules are not easily ascertained or developed, so as to give a bonus for superior performance.

But if each employee could be made to realize that his earning capacity is related, not just to time, but to his production rate or output, there might be improvement in small organizations. This applies not to the conscientious employees or the hustlers, but to the rank and file who work by the clock and then go home, without particular interest in what they have done or are going to do. In the busy season at least, workers of that type must be employed, and the problem is to show them how to improve their output so as to earn more money.

If such employees would understand that periods of inactivity, inattention or slow operation, whether minutes or quarter hours, reduce his or her day's output by an appreciable amount, they might readily see a way to be worth an additional ten per cent in wages, if not more, to the employer.

The economic education of the employee should include the realization

that he shares with his employer the money obtained from the public. The entire staff cooperates in production. If it is efficient, all rate better pay. Those who carelessly or wantonly disregard this fact, by hampering production, limit their individual earning capacity.

If these simple facts could be got into the minds of employees, small firms might increase their production ratios without the expense of the cost experts that function on factory assembly lines.

PLANTINGS FOR FACTORIES.

Commercial building seems to have been stimulated by the drop in residential construction from price resistance, as well as by the improvement of supplies of materials and labor in the building trade. Many of the new factories are being built in suburban areas, where there is space for the long one-story buildings suited to modern streamlining of production, where parking space is available for employees' automobiles and where lawns and trees will make the surroundings attractive to the workers and the neighboring residents alike.

This trend of factories toward the suburbs enhances the opportunities for industrial landscaping, as it has come to be called. Appropriations for the planting of such factory grounds commonly run into thousands of dollars.

Some plantings about recently built factories are sketchy, to say the least, while others have all the appearance of a park. The difference lies in the interest of the officers or owners of the company in horticulture. This interest is frequently dependent upon the attention given such plantings by local nurserymen. Where the latter have made a real attempt to show the beauties and benefits of industrial landscaping, appropriations have been larger. But if a factory building has been erected and reaches the point of grading the grounds without some nursery salesman showing an active interest in the project, the trees set out are likely to be few.

Examples of the improved type of factories are to be found in almost every large community. The nurserymen there should bring them to the attention of other enterprises engaged in or planning similar factory locations.

Record Florida Meeting at Jacksonville

By C. Leslie Whipp, Secretary

The annual convention of the Florida Association of Nurserymen was held May 22 to 24 at the Hotel George Washington, Jacksonville, in conjunction with the twenty-eighth annual convention of the Florida State Florists' Association, of which the nursery group is an integral part. The hotel afforded exceptionally favorable facilities for holding the separate group meetings, besides having a large auditorium where general assembly meetings were held. The hotel lobby and the several meeting rooms were beautifully decorated with ornamental plants, tropical palms and a wealth of cut flowers, so that the effect was that of a floral conservatory.

Sunday night a buffet supper was served to 331 persons who had registered that day, a record figure for the first day of the convention. This was followed by a get-acquainted fellowship party where old friends met and new friendships were formed.

Election of Officers.

Calvin D. Kinsman, Miami, who has served as president of the nurserymen's group for the past two years, was elected to head the Florida State Florists' Association. Mrs. Bruce Powell, Miami, is the new vice-president, and W. C. Phillips, Jr., Tampa, is treasurer, while C. Leslie Whipp, Callahan, continues as secretary.

Mr. Whipp, who has served the state association for many years as its able secretary, was elected to the presidency of the nurserymen's group. E. Tinsley Halter, Palm Beach, is the new vice-president, and Prof. John V. Watkins, University of Florida, Gainesville, the new treasurer.

The greenkeepers' group also met during the convention and elected as officers, Patrick Deavy, Jacksonville, president; Ralph Linderman, vice-president, and C. C. Kelley, Miami Beach, secretary-treasurer.

145 at Opening Session.

The first meeting of the nursery group was called to order at 2 p. m. Monday by President Calvin D. Kinsman, Miami, with about 145 nurserymen present. The states of Alabama, Georgia and South Carolina were well represented. Business procedure was streamlined in order to have more time for talks and discussions.

In an instructive address, Max

Pfaender, Orlando, called attention to the fact that the styles in plant material change. Plants that are to be in style this year may not have the "new look" next year. As it takes several years to produce specimen stock, it is necessary for nurserymen to anticipate what stock will be in demand several years in advance. The landscape architect senses such changes, he said, and, by cooperating with the nurserymen, can help to assure a supply of stock needed.

E. Tinsley Halter, Palm Beach, gave an interesting talk on "Shade Trees." During the war years the planting of shade trees was practically abandoned, so nurseries cut their production to a minimum. Now, with renewed interest and heavy demand, the nurseries are unable to provide enough stock. It will take several years to build up stocks of the more permanent varieties. Mr. Halter urged remedying this condition as soon as possible. Having recently attended the Southern Shade Tree Conference at Gainesville, Mr. Halter also described the highlights of that meeting.

Nursery Management Curriculum.

Prof. John V. Watkins, associate professor of horticulture, college of agriculture, University of Florida, Gainesville, spoke on the work the university is doing in training future nurserymen and landscape architects.

The University of Florida offers training in the nursery field comparable to that which may be obtained at Cornell University, Ohio State University, Mississippi State College and at other land grant colleges that are strong in ornamental horticulture, said Professor Watkins. He illustrated with a graph how the curriculum has been accepted by veterans and by the younger college students in ever-increasing numbers, showing for each year the total enrollments in courses in ornamental horticulture, tree care and nursery operations. Plant propagation and floriculture were excluded. The large numbers shown also reflected the growth of the University of Florida, which is now the largest state university in the southeast and the second largest in the entire south.

For the first two years a student at the University of Florida is enrolled in the university college where he studies the basic sciences, logic, American institutions, the humanities and written and spoken English. It is

not until his junior year that a student registers for his professional courses in nursery operations and ornamental horticulture. By this time, being well grounded in fundamentals, he is qualified to pursue advanced, specialized courses in this field. After long experience under the general college system, it is the firm conviction of Professor Watkins that students are much more capable of doing creditable work in specialized subjects.

During his junior and senior years, the average student carries about five or six subjects each semester, so, in addition to his major, he studies subjects that are closely related to his chosen field. Selected to help him later in his nursery work are courses in plant pathology, entomology, soils, agricultural engineering, marketing, genetics, plant breeding, business law and additional electives.

Landscape architecture is a fine art, and it is taught as such at the college of architecture of the University of Florida. Since 1947 this department has grown prodigiously. Students of landscape architecture study the identification, cultural requirements, hardiness and best practical uses of leading landscape materials.

In December, 1948, the university sent questionnaires to its alumni in the nursery business in order to secure suggestions for improving its curriculum and is now endeavoring to incorporate the nurserymen's ideas into its planning for the future. One question that the university is greatly interested in requires more thought and additional expressions of opinion, said Professor Watkins. It is, "Do you favor a 3-month required training period in a commercial nursery?" While the majority of the replies were in the affirmative, there was a difference of opinion.

A new acreage is being developed by the college of agriculture on Route 24, southwest of the university campus. Here, Florida will have a horticultural center unequalled in the south, said Professor Watkins. When the project is complete there will be adequate glass, half shade, irrigated land, attractive new classrooms and laboratories and all needed tools and equipment to train students in nursery operations.

Dr. M. Bellows, Hector Supply Co., Miami, brought the group up to

[Continued on page 31.]

AMERICAN ASSOCIATION OF NURSERYMEN

RICHARD P. WHITE.
EXECUTIVE SECRETARY



636 SOUTHERN BLDG.,
WASHINGTON 5, D. C.

TENTATIVE PROGRAM FOR A. A. N. CONVENTION.

A tentative program for the seventy-fourth annual convention of the American Association of Nurserymen, July 17 to 21 at the Fairmont hotel, San Francisco, Calif., has been announced by Richard P. White, executive secretary, Washington, D. C., and the California convention committees are making final plans, which will be announced in next month's issues.

A. A. N. Meeting Schedule.

The A. A. N. board of governors will be called to order by President Howard C. Taylor, Eastview, N. Y., for its first session, Monday, July 18, at 9:30 a. m. in the hotel's Gold room. The address of welcome will be given by Frank James, president of the California Association of Nurserymen. Following the report of the credentials committee by A. F. Meehan, Dresher, Pa., there will be a roll call of delegates and the appointment of convention committees. A report of A. A. N. committee activities will be made by Vice-president James I. E. Ilgenfritz, Monroe, Mich. After an address by President Taylor, the treasurer's report will be given by John B. Wight, Cairo, Ga., and the report of the executive secretary by Richard P. White. Nominations for officers and executive committee members for regions II, IV and VI will be the final item of business at this session.

Keynote Luncheon.

Speaker for the keynote luncheon Monday noon in the Venetian room will be Rilea W. Doe, Safeway Stores, Oakland, Calif., who has taken as the title of his address "Be Your Age."

Reconvening at 2:15 p. m., the board of governors will consider the board agenda, which includes bylaw amendments, policy statements, reports of standing committees and the reports of special committees. The latter will be those of the committee on statistics, by Mr. Ilgenfritz; the economics committee, by John W. Kelly, Dansville, N. Y., and the market development and publicity committee, by C. M. Boardman, Weiser Park, Pa. At the close of the session exhibitors will be introduced.

No sessions will be held for the board of governors on Tuesday, but it will reconvene at 9:30 a. m. Wednesday, July 20, for a morning session only. Lloyd C. Stark, Louisiana, Mo., will give a report on the national arboretum, and E. Manchester Boddy, publisher of a Los Angeles newspaper and owner of Rancho Del Descano, La Canada, Calif., will give an address.

The board of governors' agenda will be continued Thursday morning at 9:30 a. m. for an all-day session. After a luncheon recess there will be an address by a guest speaker and then the board of governors will take up unfinished business, hear the report of the necrology committee by F. R. Kilner, discuss any new business, elect officers for the ensuing year and hear a brief talk by J. Awdry Armstrong, immediate past president of the A. A. N.

Entertainment Highlights.

A good time is being planned for all, with special entertainment features for the ladies and the teenagers as well as for the convention delegates.

The special convention trains will arrive at San Francisco Saturday, July 16, and that evening everyone will be entertained with an east-west jamboree in the Forty-niner room.

Sunday afternoon there will be a tour of Golden Gate park and a cocktail party. Monday afternoon and evening there will be entertainment in the Forty-niner room and in Grub Gulch. The Forty-niner room will be open all day Tuesday for social gatherings. The annual past presidents' banquet will be held Tuesday evening at 7 o'clock in the Gold room.

A harbor trip on the S. S. City of San Francisco will be the highlight Wednesday, and afterward a cocktail party is planned for 5 p. m. and entertainment for the rest of the evening.

The ladies will have a special luncheon Tuesday noon.

Affiliated Groups to Meet.

While the convention of the A. A. N. is the prime event, a number of other nursery trade organizations will hold meetings at the Fairmont hotel during the same week.

The National Landscape Nurserymen's Association will hold an all-

AMERICAN NURSERYMAN

day meeting July 19 in the Red room; members of that association will take a special tour of San Francisco gardens and have a cocktail party Sunday afternoon, July 17.

Among the meetings scheduled for Sunday are an all-day meeting of the Association of Nursery Association Secretaries starting at 9 a. m. in the Empire room, the Ornamental Growers' Association at 9 a. m. in room 160 and the Fruit Tree Growers' Association at 2 p. m. in room 160.

Breakfast meetings will be held at 8 a. m. Monday by the American Nurserymen's Protective Association, in the Empire room and the Baby Ramblers, in the Green room. All-America Rose Selections, Inc., will hold sessions at 9 a. m. and at 2 p. m. in room 162.

A breakfast meeting will be held at 8 a. m. Tuesday in the Green room by the Retail Nurserymen's Association of the United States. The National Association of Plant Patent Owners will meet at 9 a. m. and again at 2 p. m. in the Garden room.

The National Mail Order Nurserymen's Association has planned a breakfast for 8 a. m., Wednesday in the Empire room.

THIRD ANNUAL MEETING OF PLAINS NURSERYMEN.

Despite the freakish storms that prevailed throughout parts of western Texas last month, a large number of nurserymen attended the third annual meeting of the Plains Nurserymen's Association, May 17 at Aggie Memorial Auditorium, Texas Technological College, Lubbock.

Officers elected were G. H. Vineyard, Vineyard Nursery, Big Spring, president; C. J. Simpson, Lubbock, vice-president, and Daniel E. Carpenter, Carpenter Nursery, Roswell, N. M., secretary-treasurer. Retiring officers are James H. Walker, Midland, Tex., president; J. C. Davis, Lubbock, vice-president, and R. O. Kershner, Kershner Nursery, Lubbock, secretary-treasurer.

To illustrate a talk on landscaping, Lee Urbanosky, who recently was appointed head of the landscape department, Texas Technological College, showed color slides. Other speakers and their subjects were Mancil Allen, Houston, insects, diseases and preventative measures, and Dr. A. W. Young, head of the department of plant industry, Texas Technological College, soils and soil testing.

In the evening the nurserymen at Lubbock entertained the group at a barbecue at McKenzie state park.

Daniel E. Carpenter, Sec'y.

Production of Hybrid Rhododendrons

PART V.

By James S. Wells

The important operation of planting out this young stock from the greenhouses into prepared beds requires careful preparation of the land, and this work has been proceeding from the previous fall, in order to insure the soil's being in just the right condition. The first requirement is to test the land for pH, and if it is found to be not sufficiently acid we dress the whole area with flowers of sulphur, using a rotary manure distributor. A Siemens rototiller is then used to mix the sulphur thoroughly, and finally the land is sown to rye, which we find to be quite tolerant of the acid conditions resulting from the dressing of sulphur.

During the winter we take every suitable opportunity to cart out onto the land quantities of well rotted humus material. For all normal conditions a dressing of twenty tons to the acre is ample. This is spread over the area early in the spring, and just as soon as the ground opens up in March it is plowed under. Deep and continuous cultivations with cut harrows thoroughly mix the vegetable waste and the cover crop with the soil, and, if necessary, additional plowings are given to insure the material's being completely and thoroughly incorporated. With continuous treatment along these lines, by the beginning of May the land will have been worked up into a fine state of friability and will resemble a field of prepared compost, which of course it is.

The area is then marked out into beds, each being approximately five feet wide and any desired length, although for practical purposes a length of 200 feet is ample. It has been our practice in the past to outline the beds with lumber, but the extremely high cost of this material prompted us to try some other method. We argued that if we raised our beds and allowed sufficient space along each side so that the first row of plants would not be washed out, it would be less expensive to send two men with shovels along each path after a heavy rain to throw back any soil which had been washed down and to rebuild these shoulders which support the first row of plants than it would be to support the beds with timber. Accordingly we set out the beds in this way. The paths between the beds are then dug out, the topsoil being spread to bring up the level of the beds at least three

inches above that of the paths. Once again, we have to take care to check any possible attacks from the fungus *Phytophthora cinnamomi*, and the surest way of preventing this is to provide adequate drainage—hence the raised beds. These are well rototilled to mix in even more thoroughly the vegetable waste, dressed with a 2-inch layer of Holland peat moss plus DDT, and finally rototilled once more. The beds are now ready for planting.

In the meantime a second gang of men has been preparing the plants in the greenhouse. Each plant is carefully examined for any signs of disease, the waxed string binding scion to stock being carefully cut at the bottom and partially unwound upward, leaving just two turns at the top untouched. This operation is extremely important, for if not cut, the string will cut into the expanding tissues of the growing plant and either so restrict growth that the plant ceases to grow or else, with the first high wind, it breaks off. If the string is cut, however, the expanding main stem will push the twine loose, but sufficient support should remain to protect the graft throughout the various operations associated with planting. The plants are removed from their pots, and the root balls carefully broken, not enough to damage the root system, but sufficient to enable the plant to thrust out into the new soil from the pot ball. If this is not done, the plants seem incapable of growing out to any great extent,

and we have seen plants which have grown for three years in the open and still retained their original pot ball with little or no addition to their root system. Carefully damped down and protected from the sun, the plants are transported to the field, where the planters are waiting to deal with them at once.

Our system of planting is extremely simple and yet accurate. A 6-inch shoulder is left on each side of the bed, and a line is fixed along one side of the bed only to set the planting line accurately. A thin lath is used as the planting line across the bed and is marked to show the position of each plant on the row, the system being one of square planting and not staggered. To each end of this lath is nailed, at right angles, a short space stick, this being the distance between the rows. Two men work on each bed, each supplied with a row of boxes of prepared plants in the path against him. The measuring stick is placed on the ground, with one end against the line, and tapped lightly into the soft soil; then a plant is set against each mark, each man doing his half of the bed. A board some three feet wide is used for the men to kneel on, so that the ground will not be trampled down, the board being moved back as required. At the completion of the row, the stick is moved back until the end of the small spacers just coincides with the row already planted. The lath will then be in position ready for the next row. At



View of the Planters, the Shading Gang Working Close Behind.

all times the end of the stick is kept close to the one line already in position, and in this way it is impossible for any mistakes to be made. The final result is a clean, workmanlike job. Care has to be taken to set the plants with the top of the union one to two inches below the ground, for this greatly helps in preventing drying out of the scions, which under the hot conditions of July and August can kill many plants.

A separate gang of men is engaged, just as soon as the planters are well started, in fixing shades over the beds, and it is essential that this operation should follow close behind the planters. No unshaded sections are allowed to stand over till the next day, for even an hour of intense sunlight can do serious harm to the young and tender plants, which, it must be remembered, have been growing in the controlled protection of the greenhouses for the past six months.

The shades are constructed to run with the beds, but this system was used only because of the lack of sufficient timber. Normally, the shading is constructed to cover both beds and paths, thus avoiding any burning to the plants on the edge of the beds. In the illustrations, the construction of the shading can be seen. Iron stakes are driven at regular intervals along the bed, supports of scrap pipe are wired to the stakes, and then the shade lumber is placed on these pipe supports. The whole is kept in place by wiring short lengths of scrap pipe or lumber on top to hold the shading down in rough weather. Finally, on

top of this shading we fix our pipe lines for irrigation. The block illustrated has no main water supply, and, therefore, we had to pipe water there with surface portable mains. These are tapped at intervals and connected by hose to the ends of the irrigation lines. The irrigation pipes themselves are laid along the top of the shading, requiring no other support, and are operated by hand. With the pressure which we have, eighty pounds, each line covers five beds.

As they are planted, each of the beds is carefully watered in, and then follow the routine measures of hoeing, weeding and general care. The pH of the soil in these rhododendron beds was on the high side, and we have applied a dressing of sulphur, using a powder blower with the control set wide open. In this way we have applied quickly and evenly a fair dressing of sulphur, which can then be worked in as the plants are hoed. Little special attention, apart from routine spraying and dusting for lacewing fly, is required until the following spring. Shades are fixed in the late fall on the side from which we can expect drifts of snow, and with this protection the plants remain quite happy throughout the winter.

About the second week in May the year following, the shades are removed, and the irrigation pipes are set up on supports. The beds are thoroughly cleaned, and dead leaves, weeds and other debris are removed. Then follows a dressing of dried blood and top mulch of peat or partly rotted leaves. With the help of

irrigation, the young plants rapidly commence to make vigorous growth, for it is in this second season that the plants really make their size. Care is taken to see that the beds remain uniformly moist, and additional dressings of blood are given at about 3-week intervals. Toward August signs of flower bud formation can be seen, and early in September one can estimate with some certainty what quantity of stock will be available for sale as "2-year budded," this being the type of stock in most keen demand. From this stage onward little trouble should be experienced from the fungus disease which has, up to now, been our main source of worry. A few plants may drop out in the spring of this second year, but when the plants are budded in the autumn, one can, with some certainty, consider them as sound salable stock.

[To be continued.]

KANSAS CITY ELECTION.

Ralph Johnson, owner of Ralph's Nursery & Garden Shop, Kansas City, Kan., was elected president of the Kansas City Association of Nurserymen at the annual meeting May 10. Other new officers include Marvin Shepherd, Williams & Harvey Nurseries, Kansas City, Mo., vice-president, and Marshall E. Wilson, Holsinger Nursery Co., Kansas City, Kan., secretary-treasurer.

YOH0 & HOOKER FIRE.

Flames whipped by high winds destroyed the lumberyard of Yoho & Hooker, Youngstown, O., May 19, with estimated damage of more than \$100,000. Twelve fire companies battled the 3-alarm fire, which apparently broke out at the extreme southern end of the lumberyard. The flames consumed the entire lumber stock and virtually destroyed the lumber mill and office.

Jud Yoho, president of the firm, reported that the building and stock piles were partially covered by fire insurance. Cause of the fire was undetermined.

HUNDREDS of varieties of peonies were on display at the Auten peony fields on Route 91, Princeville, Ill., during late May and early June. Owned by Edward Auten, Jr., the fields contain nine acres of blooms.

LAVERNE HIGDON, daughter of Mr. and Mrs. C. Y. Higdon, Higdon's Flower Shop & Nursery, Oklahoma City, Okla., recently was elected to the school senate at Oklahoma A. and M. College, Stillwater.



Plants growing strongly in middle of their second year, shades removed to encourage budding.

More Reports on Spring Business

Reports from nurseries throughout the country on their spring business, supplementing those from the west and south which appeared in the preceding issue, further indicate a successful year, with a steady demand for stock and a more ample labor supply.

In the middle west, ornamental stock sold well, and, in some cases, this compensated for shortages in other lines. The demand for small fruits exceeded the supply in some areas, and evergreens sold exceptionally well. Warmer weather than usual in the middle west in late spring tended to shorten the selling season.

Nurserymen in the east cited the large-scale building program as a major cause of the strong demand this season. Although the express strike at New York city early in the season delayed shipments, the total volume of business in most eastern nurseries was as great or greater than last year. Because of a shortage of large-size stock, more of the smaller stock was sold this season, and a shortage of good-size plants again is predicted for the fall.

Most nurserymen predicted that prices would remain steady next year, with possible reductions on fruit trees and other plants of which there is a surplus. One firm plans a reduction of prices on items in strong demand, claiming that this decrease is made possible by the use of mechanical planting. But, on the whole, the reports indicate that high production costs and a ready market will insure a level of prices similar to that of the past season.

Expands Planting.

Believing that the nursery business will remain good in the future, C. L. Vanderbrook & Son, Manchester, Conn., has expanded planting approximately twenty per cent, according to Louis C. Vanderbrook, who reports:

"Our dollar volume slightly exceeded that of a year ago, with 1949 prices quoted at the same level as those of 1948. Our business is primarily wholesale, with landscapers and jobbers, and we handle a good number of wholesale nursery accounts.

"The demand has continued strong for all lines of evergreens, flowering shrubs, lining-out stock and Rosa multiflora seedlings. Our labor conditions have eased, with labor becoming better and more plentiful. The digging and planting season has been

one of the most favorable we have had in years, affording us an excellent opportunity to get our new crops for the future lined out early.

"We will have ample supplies of stock in all lines to offer for the fall of 1949 and spring of 1950, with most prices remaining the same as a year ago. From the demand for stock this spring at our current prices, we believe that prices on evergreens, shrubs and seedlings will hold firm. We believe that in the future the nursery business will remain good, and accordingly, have expanded our planting approximately twenty per cent."

Building Boosts Demand.

As long as the current building boom continues, there will be a strong demand for evergreens, shrubs, shade trees and roses. Charles H. Perkins, Jackson & Perkins Co., Newark, N. Y., predicts in his comments on spring business, as follows:

"We have had an extremely satisfactory volume of business this year. The demand, generally speaking, has been good for most lines that we grow, fruit trees probably being the one exception. There has been a weakness in fruit trees this season, although I believe that almost every kind of fruit tree has sold, except possibly apple. However, the demand for other items, especially roses, evergreens, shrubs and shade trees, has been very satisfactory. We believe this demand will continue as long as the current building boom continues.

"We are not too well posted on the supply of stock for next season, but our impression is that it will be about the same as in the past year. We also believe that prices should remain about the same next season as they have been in the past year."

Predicts Another Good Year.

Howard W. Maloney, Maloney Bros. Nursery Co., Dansville, N. Y., writes that business this season was fine and that he expects it to be just as good next year:

"We have had fine business this spring and are well satisfied. Business has held up well throughout the spring, and I firmly believe that it will be just as good next year.

"The labor situation was much better this spring than it was last year. The supply of stock in the Dansville area seemed to be good, and I believe it was ample to meet the demand. We try to keep our planting at about the same level every

year. Even during the years when stock was in greater demand than usual, we kept planting at an even level."

Express Strike Affects Sales.

A satisfactory season is reported by John W. Kelly, Kelly Bros. Nurseries, Inc., Dansville, N. Y., although the New York railway express strike at the peak of the nursery's shipping season was a factor in the season's sales picture. Mr. Kelly writes:

"By May 23 we had just about finished our shipping. Fortunately, we experienced a satisfactory season. Our volume was not as heavy as last year, but 1948 was a good year for us. Fruit trees are our main line, and we had good sales on them. We noticed an increased demand for flowering shrubs and ornamental trees.

"We were able to employ much help this season, but, actually, there were more persons looking for work than we could accommodate. The biggest difficulty we had this spring was the express strike, which tied up shipping in New York city and eastern New Jersey, where we do considerable business. It necessitated many cancellations and kept people from placing orders with us because no express deliveries were made for a month just at the peak of our season.

"In this area the planting of fruit seedlings is not as heavy as it has been, and the supply of trees being dug will not be as great as last year.

"Prices seem to be a ticklish subject with nurserymen. There has been altogether too much price cutting, both in retail and wholesale trade, in my opinion. I do not see how it can be continued if we are going to stay in business. Our costs have not gone down and probably will not for some time.

"We nurserymen seem to be the only persons in the country who do not appreciate our products. They are the only things one can buy that increase both in size and value after they are purchased."

Express Strike Hampers Shipping.

The express strike at New York city prevented Hess' Nurseries, Mountain View, N. J., from making express shipments early in the season. This same difficulty has hampered the firm's shipments for the past four years, according to Charles Hess, who wrote in late May:

"It is a little early to say how busi-

[Continued on page 33.]

Notes on Some Alpines

By C. W. Wood

As these notes are commenced, the pile of inquiries on my desk indicates to me that they should be devoted mostly, if not entirely, to the subject of rock garden plants. If these inquiries are an indication of an accelerated interest in alpines, it is a good omen for American horticulture, but one can only hope that nurserymen will not take advantage of the demand and sell their customers much mediocre material just because it is easily propagated. This was the main factor in the decline of interest in rock gardening a few years ago, if most observers are correct in their conclusions. Answers to the inquiries follow in alphabetical order by botanical names of the plants.

Adenophora is usually dismissed by horticultural writers as an unspectacular cousin of the *campanulas*. That is largely true, I suspect, yet there is more to the plant than that implies. For instance, several good species have been introduced from China during the past quarter of a century; some of these should be good additions to our list of rockery and border plants. A few I have grown under number, but many others are known to me only by reputation. Since none of these recent arrivals are available in commercial channels, it would be useless to mention them here.

Almost any *adenophora* one may find will grow well in the climate of the middle west. This has been my experience here in northern Michigan at least, and I now recall no exception to the general rule of ease of culture in well drained soil in sun or light shade. The kind most often found in gardens is also one of the best, especially if it does not run into a long dry period. It has loose fountains of soft lilac bells on stems up to two feet in height and blooms more sparingly through the summer. Of similar growth and habit is *A. liliiflora*, although here the color is changed to blue-violet. If one can find *A. coronopifolia* or *A. stylosa*, he will have close counterparts of *Campanula rhomboidalis* and will find suggestions of *C. rapunculoides*, even to its rampagous growth, in *A. polymorpha*.

Aetheopappus balsanae is a choice alpine composite with large starry flowers of glowing yellow on 6 to 10-inch stems in late summer. It is of fairly easy culture (easy enough, I think, for the ordinary gardener) if

one gives it an acid soil in sun. It would be a good plant for the neighborhood grower in sections where slight acidity can be maintained. There were three inquiries on this subject, indicating more than the usual interest in an almost unknown plant. In answer to the Ohio inquirer, I know of no present source of supply for seeds of this plant. Before the war we had it from at least two European sources, and it will probably be offered again when conditions are back to normal. Its sister, *A. pulcherrimus*, sometimes listed as a *centaurea*, is a far lovelier plant, with its big, glowing pink, sweet sultans. It is not suited to the rock garden because of its height.

If the New Jersey correspondent who asked about *Alkanna tinctoria* will write again, I shall be glad to answer personally and perhaps beg some seeds. I have been looking for this plant for twenty years. The letter did not have the local address, and the envelope was discarded before that lack was noted. The *Alkannas* are a group of borages from southern Europe and southwestern Asia that will bear the investigation of all interested in unusual plants. The plants are chiefly yellow and blue shades, as I have grown them. *A. tinctoria* is said to be a handsome, foot-tall plant, with yellow flowers in summer.

The Connecticut reader who asked about *Alyssum atlanticum* is on the way to one of my favorite madworts, if he has the true plant, something which does not always happen. Why it is named *atlanticum*, I do not know, for the florists give its range as being from the Atlas mountains in Africa across into Spain and eastward across southern Russia, always in the mountains, I believe, up to 3,000 feet. It has been hardy here, both as to temperature and moisture conditions, always greeting us with a spread of golden-yellow flowers (no brass here) in early to midspring. Its silvered-gray foliage on prostrate stems is no small part of its charms. Sunshine and good drainage seem to be the sum of its needs.

To the New York correspondent who quotes Farrer as saying that *Anemone multifida* (*A. globosa*, *A. hudsoniana*) is a worthless weed, I reply that Farrer was not infallible, as some of his contemporaries and immediate followers would have us believe. I have referred to his remarks

on the present plant and find that he was wrong, in the light of the present acceptance of these by botanists, in his nomenclature and, in my opinion, also was wrong when he said the plant "should be thrown in the dustbin."

There is still some confusion in my mind in regard to the names. The "Cyclopedia of Horticulture" gave the correct one as *A. multifida*, saying it inhabited rocky places and uplands from our middle states to Hudson's Bay. My edition of "Hortus" drops the name *multifida*, giving it to a South American plant, probably not in cultivation, substituting the name *globosa* and assigning the plant's range to the meadows and hillsides of western North America. This leaves the middle states and Canada without a representative; yet, the fact remains that we have a plant to meet the original description. It is variable, especially in flower color, ranging from whitish-yellow to greenish-yellow and shades of red. There is a great difference in the shades of red, and evidently Farrer based his opinion on a dull greenish-red plant. Years ago I found a bright red type along the shore of Lake Superior and sent it to a number of growers, and, no doubt, others have found similar or better forms. If you can find one of these, you have an excellent red windflower, easy of cultivation in ordinary soil.

It is my opinion that the Iowa correspondent who asked about *Anthericum ramosum* will make no mistake by adding it to his list. In fact, it has about everything except showiness to recommend it. Among its recommendations is a perfect ease of culture in any sunny spot. I find several references in the literature to its need for a cool situation, but that must refer to hotter climates than this, for it grows here in our warmest spots. For instance, there are now in an abandoned frame, overgrown with grass for several years, 100 or more plants which thrive despite neglect.

The plant makes a grassy tuft of long, arching leaves, from which branching stems up to two feet in height, set with graceful sprays of small white stars, emerge in summer. This is a pleasing plant for massing in the border, a good foil among stiff subjects and a plant that is in place almost anywhere in the large rock garden.

A South Carolina reader of this

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column asks about *Aquilegia bernardi*, and I am sorry that I can tell him nothing about it from experience. At least twice we have had seeds of it and have yet to see its "enormous, clear blue flowers." Now that I know it comes from Corsica, I know the cause of our losses, and I also know that I shall never be able to enjoy it here. The South Carolina correspondent, however, should have no trouble on that score, and, if the books know what they are talking about, he will have one of the more spectacular small columbines (eighteen inches tall). The same books say it is of easy culture under ordinary columbine treatment.

Of the sandworts which we have grown, *Arenaria gothica* is one of three or four closely related species or forms of one species. And it is the best of the group from the gardener's standpoint, provided it is given a starvation diet. Then it will make a tiny tuft, comprised of inch-long prostrate stems, clothed in little oval leaves. The flowers, which are borne throughout most of the summer, are pure white and large for so small a plant. It and its relatives, including its little-known cousin, *A. novegica*, were all hardy here. If the Oregon correspondent will remember that this sandwort requires a lean soil, preferably made up of sand and gravel with a trace of leaf mold added, he will undoubtedly find it an attractive plant and a good seller.

Artemisia mutellina, from the high Alps of Europe, is one of the better wormwoods with any pretense of permanence in the garden. Two or three others may be blessed with better foliage, although I do not recall them at the moment, but few are more permanent or more easily grown. Like so many of the mountain wormwoods, the value of this plant lies in its beautiful foliage, which is long slender leaves, slashed and slashed again in silver threads, making a lovely picture hanging from a crevice in the wall or lying prostrate on its gravelly bed.

The best small woodruff of which I know is *Asperula suberosa* (A. athoa), although *A. arcadiensis* is said by the few who have grown it to be superior. But of that I cannot say, because in forty years of searching I have failed to discover the latter. Any seeker after rare beauties who lives south of the lower Great Lakes region will not make a mistake by adding *A. suberosa* to his list of rarities. If given a light, well drained soil in sun, with water at the root, it will, or at least it should, make a cushion of hoary velvet, beautiful in itself, but especially effective when it

WANT LIST

We are in need of the following list of stock for fall, 1949, and spring, 1950, use. Please quote your best prices and specify quantities on all items you can furnish.

- | | |
|--|---|
| 300 Cherry, Double Flowering, 3 to 4 ft. | 4000 Ligustrum Lucidum Compactum, 18 to 24 ins. |
| 1000 Crab, Bechtel's Flowering, 3 to 4 ft. | 3000 Ligustrum Japonicum, 2 to 3 ft. |
| 300 Dogwood, Red Flowering, 2 to 3 ft. | 1000 Lilac Paul Hariott, 18 to 24 ins. |
| 500 Catalpa, Bungei, 5 to 6 ft. | 2000 Nandina Domestica, 18 to 24 ins. |
| 2000 Maple, Silver Leaf, 6 to 8 ft. | 3500 Philadelphus Aurea, 15 to 18 ins. and 18 to 24 ins. |
| 2000 Maple, Silver Leaf, 8 to 10 ft. | 5000 Philadelphus Virginialis, 2 to 3 ft. |
| 1500 Maple, Silver Leaf, 10 to 12 ft. | 1000 Photinia Serrulata, 15 to 18 ins. and 18 to 24 ins. |
| 1000 Mountain Ash, 5 to 6 ft. | 3000 Privet, Regel, 18 to 24 ins. |
| 300 Pin Oak, 6 to 8 ft. | 1000 Prunus Newport or Cistena, Bush Form, 2 to 3 ft. |
| 100 Pin Oak, 8 to 10 ft. | 1000 Prunus Triloba, Bush Form, 2 to 3 ft. |
| 1000 Plane Tree, Oriental, 8 to 10 ft. | 5000 Snowberry, Chensaulti, 2 to 3 ft. |
| 500 Poplar, Bolleana, 6 to 8 ft. | 5000 Spiraea Anthony Waterer, 12 to 18 ins. |
| 3500 Abelia Grandiflora, 18 to 24 ins. | 3000 Spiraea Callosa Alba, 12 to 18 ins. |
| 2000 Almond, Double, Pink, 2 to 3 ft. | 500 Spiraea Douglasi, 2 to 3 ft. |
| 2000 Buddleia Ile de France, No. 1 | 3000 Spiraea Thunbergi, 18 to 24 ins. |
| 2000 Buddleia Fireflame, No. 1 | 1000 Viburnum Opulus, 2 to 3 ft. |
| 2500 Callicarpa Purpurea, 2 to 3 ft. | 1500 Viburnum Tomentosum, 2 to 3 ft. |
| 500 Clethra Alnifolia, 2 to 3 ft. | 1000 Viburnum Tomentosum Plicatum, 18 to 24 ins. |
| 4000 Cydonia Japonica, 18 to 24 ins. | 2500 Weigela Bristol Ruby, 2 to 3 ft. |
| 3000 Cornus Elegantissima, Var., 2 to 3 ft. | 3500 Weigela, Variegated, 18 to 24 ins. |
| 3500 Deutzia Gracilis, 12 to 18 ins. | 1500 Buxus Japonica, 10 to 12 ins. and 12 to 15 ins., B&B |
| 3500 Deutzia Gracilis Rosea, 15 to 18 ins. | 1000 Camellia Sasanqua, 12 to 15 ins., B&B |
| 700 Deutzia Pride of Rochester, 2 to 3 ft. | 1000 Euonymus Japonicus Macrophyllus, 8 to 10 ins., B&B |
| 1000 Elaeagnus Angustifolia, 2 to 3 ft. | 1000 Viburnum Tinus, 18 to 24 ins., B&B |
| 2500 Euonymus Alatus, 18 to 24 ins. | 500 Viburnum Tinus, 15 to 18 ins., Br. |
| 3500 Euonymus Alatus Compactus, 15 to 18 ins. | 5000 Salix Purpurea Nana, 15 to 18 ins. |
| 4000 Euonymus Patens, 18 to 24 ins. | 7000 Euonymus Radicans, No. 1 |
| 2000 Gardenia Fortunei, 15 to 18 ins. | 4000 Euonymus Radicans Vegetus, No. 1 |
| 1000 Gardenia Radicans, 15 to 18 ins. | 1000 Euonymus Coloratus, No. 1 |
| 2000 Golden Ninebark, 2 to 3 ft. | 2000 Honeysuckle, Hall's Japanese, 2-yr., No. 1 |
| 4000 Hydrangea Arborescens, 2 to 3 ft. | 3000 Matrimony Vine, 2 to 3 ft. |
| 5000 Hydrangea, French Blue, 5 to 6 Br. | |
| 3500 Hydrangea P. G., Bush, 2 to 3 ft. | |
| 2500 Hypericum Aureum, 15 to 18 ins. and 18 to 24 ins. | |
| 1000 Honeysuckle, Pulcherrima, 2 to 3 ft. | |
| 500 Honeysuckle, Pink Tatarian, 2 to 3 ft. | |
| 1500 Ilex Burfordi, 15 to 18 ins. | |
| 2500 Jasmine, Nudiflora, 18 to 24 ins. | |
| 3500 Kerria Japonica Floraplana, 18 to 24 ins. | |

ROSES, 2-yr., No. 1

- | | |
|---------------------------|----------------------|
| 2000 Hugonis | 3000 Eutin |
| 1000 Wichuraiana | 4000 Gruss an Aachen |
| 2000 Grootendorst Pink | 4000 Perle d'Or |
| 2000 Edith Nellie Perkins | 4000 Baby Chateau |
| 3000 McGredy's Ivory | |

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sends up 2-inch spikes of pink trumpets.

The Nebraska correspondent, looking for *Aster andinus*, need look no farther than her neighboring states, Colorado and Wyoming, where it inhabits many high places in the Rocky mountains. I received the plant years ago from the late D. M. Andrews with a note that it needed an acid soil. I found out, too, that it required more moisture, especially at the roots, than this dry garden affords naturally. Grown in pots, watered from below, it gave freely of its violet and gold flowers which are similar to the better known *A. alpinus*. *Aster kingi*, from the same region, is similar, and both could well be called American representatives of

[Continued on page 31.]

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Book Reviews

"SHRUBS AND VINES FOR AMERICAN GARDENS."

Outstanding among the many new garden books of the current year is "Shrubs and Vines for American Gardens," by Dr. Donald Wyman, of the Arnold Arboretum, just published by the Macmillan Co., at \$7.50.

Dr. Wyman is well known to readers of the American Nurseryman, through articles in these columns, as one of those persons working most energetically for more selectivity in the propagation and growing of garden plants. He is said to have evaluated some 3,200 species of varieties, all currently under cultivation in the United States and Canada, to arrive at approximately 1,100 species and varieties of shrubs and vines suggested as worthy of planting under certain conditions. Each of these is briefly described as to characteristics, garden features, habitat and introduction, with a paragraph of comment. These short descriptions of the recommended plants compose about three-fourths of the volume of 442 pages. Merely named in an additional list of over 1,700 are shrubs and vines considered by the author as of secondary interest only, "certainly not needed at first by the amateur and only after careful scrutiny by the professional plantsman."

Preliminary chapters in the book discuss hardiness, order of bloom, ornamental fruits, foliage colors and shrubs for various purposes.

This book will help nurserymen to revise their own planting lists, so that they will not have an overproduction of second-rate items when the gardening public, advancing with more knowledge each year, demands plants of the better sort.

In lilacs, for example, there are 450 differently named varieties in the collection at the Arnold Arboretum—which contains approximately 6,000 different kinds of woody plants—and the author states that it is possible to buy nearly 300 of these varieties of lilacs from commercial sources in North America. Yet, the author says, it is possible to divide the varieties into only seven different groups according to the flower colors. Surveys have reduced the list of "the best" to 100 varieties, or even less, and that is a large number for commercial growers and certainly far too many for the attention of the usual retail nurseryman.

Other species of shrubs are in sim-

ilar need of survey study, to eliminate the duplicates and select the best.

One important consideration is that all plants in the recommended list of this book are actually growing in North America today, either in commercial nurseries or in arboreta, and sources for all the rare varieties are on file at the Arnold Arboretum.

This volume is one that every nurseryman will want to study and have handy for reference, as well as recommend to advanced gardeners.

The illustrations include 100 excellent halftones of plants, as well as colored maps showing hardiness zones of the United States and Canada.

AMERICAN ROSE ANNUAL.

The American Rose Annual for 1949 carries a gold cloth binding, which "symbolizes not so much the past fifty years of rose progress as the golden era of the rose that lies ahead," according to the editor, Dr. R. C. Allen.

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AMERICAN NURSERYMAN

The 1949 annual pays tribute to Dr. J. Horace McFarland, who was editor of this yearbook for its first twenty-nine years and continued writing about the rose until shortly before his death last year at the age of 89. The frontispiece is a reproduction of a portrait of Dr. McFarland painted in 1946, and the book opens with biographical comments by leading rosarians.

The 280 pages of this volume, as usual, carry a considerable number of short articles on a wide variety of topics related to the rose—historical, cultural, geographical and fanciful. The section "Proof of the Pudding" occupies nearly a third of the book and condenses reports of members in all parts of the country regarding a considerable list of varieties.

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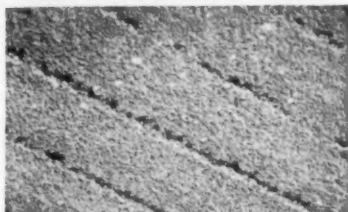
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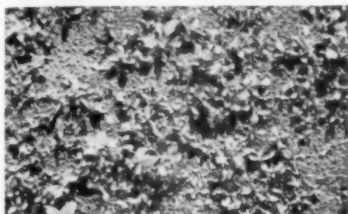
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ican Rose Society get more than their membership fee's worth in this volume alone, and its price of \$4.50 is small for such a compendium of rose growing.

GARDEN GUIDE.

"Through the Arnold Arboretum" is the title of a handsome booklet of forty-eight pages and cover, containing five color plates and a number of handsome black and white illustrations. Those not well acquainted with "America's Greatest Garden" will find this brief presentation of its history and plantings of particular value, while those who have visited the arboretum will find the booklet's contents quite interesting. Probably not many nurserymen, the country over, realize how much is to be found on a visit to the arboretum. Its service to this industry may be realized in part by the list of fifty prominent plant introductions of the Arnold Arboretum listed in the final two pages of the booklet; most of the names of the plants in this list are today quite familiar to the nursery trade.

Copies of the booklet are available at 55 cents each postpaid by application to the Arnold Arboretum, Jamaica Plain, Mass.

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Coming Events

MEETING CALENDAR.

June 17 and 18, South Carolina Nurserymen's Association, Fort Sumpter hotel, Charleston.

June 19 and 20, Mississippi Florists' and Nurserymen's Association, Hotel Buena Vista, Biloxi.

June 21 and 22, Missouri State Nurserymen's Association, Hotel Chase, St. Louis.

June 22 to 24, short course for nurserymen, Texas A. and M. College, College Station.

June 23 and 24, Oregon Association of Nurserymen, Corvallis.

July 7 and 8, nursery and landscape management conference, Michigan State College, East Lansing.

July 17 to 21, American Association of Nurserymen, Fairmont hotel, San Francisco, Calif.

July 17, Ornamental Growers' Association, Fairmont hotel, San Francisco, Calif.

July 17, Wholesale Fruit Tree Growers' Association, Fairmont hotel, San Francisco, Calif.

July 17, Association of Nursery Association Secretaries, Fairmont hotel, San Francisco, Calif.

July 18, All-America Rose Selections, Inc., Fairmont hotel, San Francisco, Calif.

July 19, Retail Nurserymen's Association of the United States, Fairmont hotel, San Francisco, Calif.

July 19, National Association of Plant Patent Owners, Fairmont hotel, San Francisco, Calif.

July 19, National Landscape Nurserymen's Association, Fairmont hotel, San Francisco, Calif.

August 8 and 9, National Mail Order Nurserymen's Association, Hotel La Salle, Chicago, Ill.

August 11 and 12, Indiana Association of Nurserymen, Morton Arboretum, Lisle, Ill.

August 18, Connecticut Nurserymen's Association, Manchester.

August 19 and 20, West Virginia Nurserymen's Association, Tygart hotel, Elkins.

August 22 to 24, Texas Association of Nurserymen, Driskill hotel, Austin.

August 24 to 26, Southern Nurserymen's Association, Hotel Patten, Chattanooga, Tenn.

August 28 to 30, Virginia Nurserymen's Association, Bristol.

September 13 to 15, California Association of Nurserymen, Santa Barbara.

September 30 to October 2, Texas rose festival, Tyler.

SOUTH CAROLINA PLANS.

The opening session of the meeting of the South Carolina Nurserymen's Association, June 17 and 18 at Charleston, will be held at Middleton Place Gardens Nursery, following registration Friday morning at the Fort Sumpter hotel. After an address of welcome, Steve Stephenson, Stephenson's Nursery, Irmo, vice-president of the South Carolina Nurserymen's Association, will give a brief talk.

Robert E. Marvin, Walterboro, will speak on "Landscape Architecture, a Fine Art," and C. N. Hastie, Jr., Magnolia Gardens & Nurseries, Charleston, will discuss "A New Camellia Disease." A forum on plant problems will be presented by Fred Galle, department of horticulture, University of Tennessee, Knoxville; John Wight, Wight Nurseries, Cairo, Ga.; A. M. Musser, head of the department of horticulture, Clemson Agricultural College, Clemson; Dr. W. C. Barnes, South Carolina agricultural experiment station, Charleston; J. A. Berly, acting head of the department of zoology and entomology, Clemson Agricultural College, and Margaret F. Higdon.

In the evening a banquet will be held at the Fort Sumpter hotel, with Margaret F. Higdon acting as mistress

of ceremonies. Sen. O. T. Wallace, Charleston, will be the banquet speaker. A showing of colored slides will complete the program for the banquet.

The president's address, by John T. Bregger, Peach Ridge Farms, Clemson, will open the second day's session. Other speakers and their subjects will be Fred Galle, "Use and Selection of New Ornamental Plants"; A. M. Musser, "Prolonged Dormancy in Plants"; Dr. W. C. Barnes, "Soil Problems of the Nurseryman," and John Wight, "Now You Have To Sell It."

A business meeting and a meeting of the South Carolina chapter of the American Association of Nurserymen will conclude the 2-day convention.

MISSISSIPPI PROGRAM.

The first day of the 3-day convention of the Mississippi Florists' and Nurserymen's Association, June 19

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to 21, at the Buena Vista hotel, Biloxi, will be occupied by registration in the afternoon and a seafood buffet dinner in the evening.

Breakfasts for the executive committee and designers will precede the general session which is scheduled to be called to order at 10 a. m. by President William Cabaniss. Following the invocation by Rev. Thomas A. Carreth, a message of welcome by Mayor G. B. Cousins and a response by President Cabaniss, there will be a short business session. Guest speaker for the morning will be Prof. A. F. DeWerth, head of the department of landscape art, Texas A. and M. College, whose subject will be "Opportunities in the Field of Ornamentals in the South."

In the afternoon there will be two sessions, one a design school led by Jack Jackson, Memphis, Tenn., and the other a growers' school. At the latter "Outdoor Production of Flower Crops" will be the subject for discussion. Duke Paterson, Rosemont Gardens, Montgomery, Ala., will explain the cultural practices which he follows; Professor DeWerth, will tell of outdoor flower crops in Texas, and Prof. E. W. McElwee, Mississippi State College, will relate the results of research on outdoor flower production at Missis-



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2000	Taxus Cuspidata, 4 to 6 ins., 1-yr.	18.00
1200	Taxus Intermedia, 4 to 6 ins., 2-yr.	20.00
1200	Taxus Media Hicksi, 4 to 6 ins., 2-yr.	20.00
1300	Taxus Media Hicksi, 6 to 8 ins., 2-yr.	18.00
2000	Thuja Occ. Globosa, 6 to 8 ins., 2-yr.	20.00
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issippi State College. The session will conclude with a round-table discussion.

A banquet followed by dancing will provide the evening entertainment.

The final day of the convention will open at 8 a. m., with the president's breakfast. Again, the design school and the growers' school will meet in separate sessions. On the program for growers Prof. D. S. Batson, Mississippi State College, will give an illustrated talk on "The Complete Home Landscape Design"; R. M. Monosmith, extension horticulturist, Mississippi State College, will discuss "Nurseryman-Customer Relationships," and a movie on handling plants will be shown.

After a business meeting at 11 a. m., members of the Florists' Telegraph Delivery Association and the Telegraph Delivery Society will meet for separate luncheons.

ANNOUNCE PROGRAM FOR TEXAS SHORT COURSE.

Propagation problems, plant pathology and physiology and entomology will be among the subjects discussed at the short course for nurserymen, June 22 to 24 at Texas A. and M. College, College Station. The course is sponsored jointly by the Texas Association of Nurserymen and the departments of landscape art, horticulture, entomology and plant physiology and pathology of Texas A. and M. College.

During the afternoon of the first day, "Special Methods for Handling Hardwood Cuttings in the Southwest" will be discussed by A. F. De Werth, head of the department of landscape art at the college. E. W. Schultz will speak on "Problems in Seed Germination and Results of Tests with Various Seeds in 1949." Talks on plant hormones, their use with ornamental plants and with fruits and vegetables, and a panel and question box on propagation methods by nurserymen and others will follow.

Speakers and their subjects for the morning of the second day include: Dr. E. M. Hildebrand, department of biology, "Plant Galls and Overgrowths"; Dr. A. A. Dunlap, head of the department of plant physiology and pathology, "Camellia Dieback and Canker," and W. J. McIlrath, "Inside of the Plant." Speakers on rose research and participants in a panel discussion scheduled for the morning session have not been announced.

Beginning the afternoon session, A. F. De Werth will report on recent developments in the control of greenhouse pests. "Pecan Insect Control"

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will be the subject of a talk by D. F. Martin, department of entomology. Dr. H. G. Johnston, head of the department of entomology, will discuss "A Spray Schedule for Stone Fruits," and Dr. V. A. Little, professor in the department, will speak on "Control of Major Pests on Ornamental Shrubs." A panel discussion will conclude the session.

For the morning of the final day, speakers and their subjects will include: Dr. Carl E. Ferguson, department of agronomy, "Soil Fertility and Fertilizers"; M. K. Thornton, department of agronomy, "Indications of Deficiencies"; A. F. De Werth, "Arboretums, Their Purpose and Value," and F. R. Brison, department of horticulture, "Factors that Influence Successful Transplanting."

Concluding the short course will be a discussion of irrigation problems, including a consideration of the amount that a pump will deliver, methods of application, sunscald and effects on soil and soil structure.

RETAIL, MAIL-ORDER SEEDSMEN PLAN MEETING.

The retail and mail-order division meeting of the American Seed Trade Association convention will be held at the Hotel Statler, Washington,



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D. C., June 22, from 1:30 to 4:30 p. m.

Heading the list of speakers will be James Burdett, director of the National Garden Bureau, Chicago, whose subject will be "Your Garden Bureau Does a Job." J. Edwin Carter, president of Stumpp & Walter Co., New York, will talk on "Impressions of a Newcomer to the Retail Seed Business."

Other speakers and their topics will include: J. J. Porter, president of Porter-Walton Co., Salt Lake City, Utah, "Something New in Seed Stores"; Leonard Condon, R. H. Shumway, Seedsman, Rockford, Ill., "What Today's Increased Costs Present to the Mail-order House"; James Rotto, Hecht & Co., Washington, D. C., "Merchandising by Hecht," and "Enlightenment on Principles of Mail-order Selling," by an advertising agency executive whose name has not been announced as yet.

Dr. Fred Grau, United States Department of Agriculture, Beltsville, Md., an authority on turf grasses, will give a talk on "The Public Will Buy Better Lawn Seeds." A panel discussion of "Your Associated Lines," led by Lloyd Parr, will conclude the meeting.

J. & P. ROSE DAY.

Jackson & Perkins Co., Newark, N. Y., will be host to the members of Roses, Inc., June 21 for a special tour of the firm's rose garden, new test greenhouses and two greenhouses devoted entirely to greenhouse rose research. The display rose garden, which was opened in June, 1947, is expected to be at its peak of bloom by that day. There are more than 35,000 plants of modern hybrid tea roses, floribundas and climbers on display.

CONNECTICUT PLANS.

The summer meeting of the Connecticut Nurserymen's Association will be held August 18 at Manchester, in cooperation with the New England Nurserymen's Association. A program will be planned for the ladies and children who attend.

Plans also are being made by the Connecticut Nurserymen's Association for a 2-day short course for nurserymen to be held during the summer.

A NURSERY and landscape service recently were started by Edward P. Lynch, 419 Conway street, Frankfort, Ky.

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American Elm, 1 1/4 and 1 1/2-in.
Thurlo Willow, 5 to 6 ft., up to 1 1/2-in.
Apple, 2 and 3-yr., XX,
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Lesser Quantities of:
Pear, Plum and Cherry.
Berberis Thunbergi, 12 to 18 and 18 to 24 ins.
Forsythia, Honeysuckle Bush,
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FOR 26 YEARS

APPLY MARYLAND SALES TAX TO NURSERY STOCK.

The Maryland retail sales tax law has been amended so that nurserymen have been required to pay the tax since June 1. The amended law, Senate bill No. 335, exempts the following products from sales tax: Live-stock, poultry, seeds, feeds for live-stock and poultry, fertilizers, lime and land plaster used for agricultural purposes; and the products of the farm, dairy, grove or garden, except those products which are usually sold by nurseries and horticulturists; including, but not limited to, flowers, sod, decorative trees and shrubs.

This amendment superseded a previous decision by Judge Charles C. Marbury, of the circuit court of Prince George's county, that the Maryland retail sales tax did not apply to nursery stock and that nurserymen who had paid the tax were entitled to refunds.

L. C. BOBBINK, Bobbink & Atkins, East Rutherford, N. J., led the official tour of the rose garden at the New York Botanical Garden when professional and amateur rose growers gathered there June 9 for the annual rose growers' day.

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- *Green Ash
- *Hackberry
- *Soft Maple

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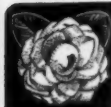
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Summer or Winter.
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planting during the next 3 months.
VERHALEN NURSERY CO.

Scottsville, Texas

**500 ATTEND LOUISIANA
HORTICULTURE MEETING.**

All previous attendance records were broken at the convention of the Louisiana State Horticultural Association, Inc., May 19 to 21 at the Roosevelt hotel, New Orleans. Total registration figures showed that 500 trade members were present, bettering last year's record-breaking total by almost 100.

The Hon. W. E. Anderson, commissioner of agriculture of Louisiana, told the group about a state-wide survey which will be conducted to obtain more information concerning all firms engaged in agriculture.

At the president's banquet and ball, announcement of new officers was made. Those who were reelected were Joseph F. Peters, Alexandria, president; Aubrey Henderson, Lafayette, vice-president, nurserymen's group, and Joseph Vallot, Lafayette, vice-president, landscape group. Other new officers are Manuel Zabala, New Orleans, vice-president, florists' group; Jeff Stickler, New Orleans, vice-president, seedsmen's group, and Ed Sanders, Shreveport, vice-president, allied trades group. New members of the board of directors elected for three years are Elmer A. Farley, New Orleans, and Vernon Hunt, Baton Rouge; for two years, Mrs. V. A. Guidroz, Thibodaux, and Warren Harker, Monroe, and for one year, Lester Herbert, Abbeville, and Dunbar Hunt, Baton Rouge.

The first talk of the plant and soil clinic for growers, conducted by the Hon. W. E. Anderson, was given by Dr. F. S. Gooch, department of biology, Southwestern Louisiana Institute, Lafayette. Speaking on diseases of southern ornamental plants, Dr. Gooch summarized the main types of diseases and the most effective means of controlling them. The present tendency in the control of nematodes, said Dr. Gooch, is to apply nematocides only in sufficient quantities to reduce the numbers of the pests, and not to make large applications in an effort completely to eliminate the nematodes at the risk of causing severe injury to the plants. Smaller applications also would be more economical for the nurserymen. Dr. Gooch stressed sanitation and roguing of diseased plants as effective measures of controlling diseases of bulbous crops such as irises, lilies and gladioli.

Some of the most common pests encountered in the propagation of nursery and greenhouse plants were discussed by R. W. Hanchey, department of horticulture, Louisiana State University. According to Mr. Hanchey, insects such as earthworms, grass-

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By L. H. Bailey

For half a century a standard manual on the propagation of plants by means of seeds, layers, cuttings, buds, grafts and otherwise. Reprinted in many editions, this book was out of print for a time, but is again available. Half of the 456 pages contain chapters on nursery practices, particularly regarding propagation, while the latter half comprise an extended alphabetical list of plants with full indications for propagation under each plant.

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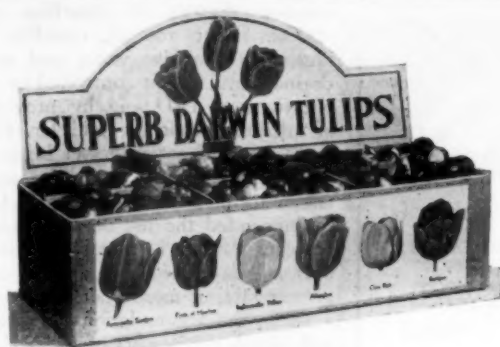
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hoppers, termites and sow bugs can be controlled by applications of DDT. He recommended nicotine sulphate as a repellent for cats and dogs in the nursery and also stressed sanitation to prevent insects from overwintering in weeds or in decayed plant refuse.

Using colored slides to illustrate his talk on some of the most troublesome diseases encountered in growing nursery roses, Dr. E. W. Lyle, of the Texas Rose Research Foundation, Tyler, stressed the importance of applying fungicides immediately after a rain. He said that a mixture of ninety per cent sulphur and ten per cent basic copper had proved the most successful dust in controlling black spot on Texas-grown roses. The predominant use of Rosa multiflora as an understock for outdoor-grown roses was caused chiefly by the fact that this type of rose had a relative resistance to black spot, Dr. Lyle pointed out.

Among the pests of the nursery discussed by Ira S. Nelson, department of horticulture, Southwestern Louisiana Institute, were deer, sapsuckers, kingfishers, moles and mice. He recommended measures of control.

Some of the newer insecticides and their biological effects upon man and insects were described by Dr. Lewis T. Graham, department of entomology, Southwestern Louisiana Institute. He also discussed methods of applying these insecticides in the form of aerosols, liquids, dusts and by means of fog machines.

Dr. D. L. Gill, pathologist, United States Department of Agriculture experiment station, Springhill, Ala.,

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BLUEBERRY PLANTS

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TOMS RIVER, N. J.

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showed slides to illustrate his talk on common diseases of camellias and azaleas. Root rot of camellias is caused by excessive water and poor drainage and can be controlled by applications of D-D and by provision of adequate drainage, said Dr. Gill. In the case of azalea flower blight, a fungus that spreads over large areas which are planted to azaleas, Dr. Gill recommended the use of six to eight per cent Parzate in three applications over a 7-day period. If applied at a greater rate, or more than three times a week, the accumulation of Parzate will bleach the flowers of the azaleas. Camellia flower blight, which is not so serious as azalea blight because of the tendency of the area of infection to be confined to one plant, can be controlled by spraying Fermate on the ground surrounding the plants, thereby killing the spores before they can germinate and reinfest the same plants, said Dr. Gill.

COVER ILLUSTRATION.

Gleditsia Triacanthos Inermis.

The spread of the phloem necrosis of elm in the heart of the area where the honey locust is naturally prevalent, together with the inroads of the Dutch elm disease from the east, has brought attention to *Gleditsia triacanthos inermis* as an eligible substitute for the American elm in landscape plantings. Its open, graceful crown of fine foliage and somewhat pendulous branches lend it to that purpose.

While it belongs to the Leguminosae, pea family, botanists group it with the Kentucky coffee tree and redbud, rather than with the black locust, *Robinia pseudoacacia*, which it more resembles. The name *gleditsia* was given it by Linnaeus in 1753 in honor of Johann Gottlieb Gleditsch, professor of botany at Berlin. *Triacanthos*, meaning 3-horned, describes the sharp spines encountered on the trunk and older branches of the native tree. This appellation is cancelled by the term *inermis*, meaning unarmed, applied to thornless trees which nurserymen produce by budding or grafting. Seeds usually will produce a small percentage of thornless trees.

Naturally, the tree grows with a short bole to a height of eighty feet and a trunk diameter of two or three feet, while old specimens have been found up to 150 feet in height and six feet in diameter in the fertile river bottoms of the midwest. The leaves, compound and occasionally doubly compound, are from seven to twelve inches long, arranged laterally along the branches. Each leaf is composed of eighteen to twenty-eight small oval

or slightly pointed leaflets in opposite pairs, each an inch or so long and one-half inch in width. They are dark green and shiny above, duller yellow-green below, and in autumn a pale yellow.

When the leaves are nearly full-grown, in May to July depending on the locality, the greenish-yellow flowers hang in racemes from the axils of the previous season's leaves. The staminate racemes are often clustered and crowded with flowers, the pistillate usually alone and few-flowered. Both are on the same tree.

The strap-shaped, dark brown or purplish pods, twelve to eighteen inches long, hang in groups of two or three, maturing in autumn and clinging on into the winter. They contain numerous brown, oval seeds separated by a sweet and succulent pulp, sought by animals and sometimes small boys. With maturity the pulp becomes bitter. The hard seeds may be stored until spring and, to accelerate germination, are soaked in hot water for several hours before planting.

The bark on young trees and on newer branches is smooth and grayish-brown. On mature trunks it is divided by deep fissures into long narrow scaly ridges.

The thick fibrous roots are deep and wide-spreading, but they are without the nitrogenous-fixing nodules of most other legumes. Because of its ease in transplanting and its adaptability to various soils and climates, the honey locust has grown in favor for ornamental planting.

Native from western New York and the western slopes of the Appalachian mountains to Nebraska and northeastern Texas, the honey locust prospers best in moist fertile soils, but thrives also in less favorable upland sites.

A form of still further value for lawn planting, as well as parks and streets, is the "Colonialocust," on which a patent was secured last month by the Siebenthaler Co., Dayton, O., after having been propagated and planted by that firm for some years. Its shape is shown by the cover illustration, which pictures a tree transplanted in 1934 at 2-inch diameter. It is thornless like the parent, and is also seedless, a fact which eliminates the necessity of removing the unsightly seed pods from the lawn below each fall and winter. The energy otherwise required to produce the seed pods goes into the foliage, which the "Colonialocust" holds much later in the fall than the species, while it is more dense through the entire summer. Although this form is somewhat difficult to reproduce, the patentee has licensed a few growers over the country to propagate it.



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SOUTHWESTERN NOTES.

The Sutton Nursery & Landscape Co., Independence, Kan., was low bidder on three roadside improvement projects in Pratt county, Kansas, with a bid of \$3,590.

Scott Wilmore, W. W. Wilmore Nurseries, Denver, Colo., visited nurseries in Kansas and Iowa late in May. He reports that his firm enjoyed an unusually good season.

Andrew Juergensen has closed Juergensen's Landscape Service, Great Bend, Kan., and has joined the Schrepel Landscape Service, Great Bend.

The Wichita Eagle for May 4 carried a feature article illustrated with a picture of William C. Salome, Jr., mayor of Wichita, Kan., taking off for New York city, Paris and Orleans, France, where he will represent Wichita at the Joan of Arc festival. Mr. Salome is president of the Wichita Landscape Service and is associated with the Mount Hope Nurseries, Lawrence. The deputy mayor of the city of Orleans and his daughter met Mr. Salome at New York and went on to Wichita.

J. J. P.

1950 ALL-AMERICA ROSE SELECTIONS ANNOUNCED.

Four new roses have won the designation of All-America Rose Selections for 1950, the Oscars of the horticultural world. They are Fashion, a floribunda rose, introduced by Jackson & Perkins Co., Newark, N. Y.; Mission Bells and Capistrano, hybrid tea roses, introduced by German Seed & Plant Co., Los Angeles, Calif., and Sutter's Gold, a hybrid tea rose, introduced by Armstrong Nurseries, Inc., Ontario, Calif.

Judged on the qualities of an ideal rose, the winners were chosen by the national rose jury on the basis of impartial tests in eighteen trial gardens throughout the country over a 2-year period. The four selections are hardy in all sections of the country.

Fashion is a luminous coral-pink overlaid with gold. The open blooms are about three and one-half inches in diameter, and the plant reaches a height of from two and one-half to three feet. At the summer show of the National Rose Society in England, Fashion was awarded the gold medal for the best new variety shown.

Capistrano, a vigorous and sturdy rose, produces unusually large buds and flowers, the latter often reaching six inches in diameter. It has long stems and reaches a height of from four to five feet under favorable growing conditions.

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A complete list of HYBRID TEAS, CLIMBERS, BABIES and FLORIBUNDAS. Also, one of the most complete lists of patent varieties, including the A.-A. R. S. award winners.

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BALED EXCELSIOR TOW

(EXCELSIOR SHAVINGS)

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871 Othello St. Seattle 8, Wash.

Mission Bells, a deep salmon-pink rose opening to a clear shrimp-pink color, has flowers up to five and one-half inches in diameter. It is free-flowering and has few thorns.

Sutter's Gold features long, pointed, bright yellow buds, shaded with orange and red. Strong, vigorous and free-branching, the plant produces great quantities of buds from early spring to late fall on long, straight stems, which are excellent for cutting.

SAN JOAQUIN MEETING.

The origin of insecticides and the dangers involved in using them were subjects for a talk by John Dixon, county agricultural commissioner, at a meeting of the San Joaquin Valley chapter of the California Association of Nurserymen, May 21 at Sloan's Cafe, Fresno. A panel discussion followed the talk.

S. L. Whitehorn, Sierra Nursery & Seed Co., Fresno, reported on the recent refresher course for nurserymen at California State Polytechnic College, San Luis Obispo.

A nominating committee, comprised of George Walder, Walder Nursery Co., Fresno, chairman; Eugene Gaston, Linwood Nursery, Turlock, and Willis Stribling, Stribling Nurseries, Merced, was appointed.

In a report on a recent directors' meeting at Berkeley, Mr. Stribling, state director, discussed several new programs under consideration for the September convention of the California Association of Nurserymen. He made a motion that the next meeting be held September 8 at Fresno. Virgil Cripe, Sec'y.

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Our Complete Trade Price List of
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CLASSIFIED ADS

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Minimum order, \$2.00.

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AZALEA LINERS.
Coral Bells
Double Mauve
Sweetheart Supreme

All good pot plant varieties; have been cut many times for this purpose. These plants can be made into some real nice 4-inch pot plants for fall potting.

\$10.00 per 100, \$90.00 per 1000.

Wholesale only.

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HARDY AZALEA LINERS.

Kaempferi—Fedora, Carmen, Louise, Mme. Butterfly, Atlanta, Also, Hinodegirl, Ledi-folia alba, Well branched, 6 to 8 ins., \$55.00 per 100. Grown in special mixture producing lightweight ball and large root system. No packing charge. Cash with order. Write for sample photo.

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(Route 112, between Station and Coram)
Port Jefferson Station, L. I., N. Y.

50,000 AZALEA TRANSPLANTS.
Indica alba, Mary, Hinodegirl, Alice, Amoena, Hinomayo, Flame, Purple King, mixed pink kaempferi.

Very heavy rooted.
14c each in 1000 lots; 16½c each in 100 lots.
Packing and shipping extra.
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AZALEA TRANSPLANTS.

Coral Bells, Pink Pearl, Ledifolia Alba, Sweet Briar, Orange Coral Bells. \$14.00 per 100, \$125.00 per 1000.

JOHN WIGMORE, Norman Ave.,

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Thousands of beautiful plants in many varieties. Now booking orders for fall. Place your order early to avoid disappointment.

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CHAMAECYPARIS LAWSONIANA
ELLWOODI.

Sturdy, well established
California-grown liners.
In 2½-in. pots.
\$17.50 per 100, F.O.B. Monrovia.

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PICEA PUNGENS GLAUCA.
Bare-root Stock — Packed in Wet Moss.
Prices: Each, incl. packing, F.O.B. nursery.
Full color range—Bed run.

Order Lots: 10 to 50 51 to 500 Over 500
X, 4 to 8 ins. \$0.15 \$0.13 \$0.12
XX, 6 to 12 ins.35 .31 .28
XXX Selected Stock—Order Lots: 10 to 50.

Color 12 to 18 ins. 18 to 24 ins.
Blue-greens \$0.90 \$1.50
Full color range 1.15 1.75
Medium blues 1.40 2.00
Silver or blue shiners. . . 2.25 3.00
10 per cent discount for order lots 51 to 500.
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Add 25c per tree for B&B or C.S. pots.
Cash with order or before shipment.
H. W. WEBER

16 Summer St. Weston 93, Mass.

LINING-OUT STOCK.

EVERGREENS, potted.

Pot size Per 100
Taxus cuspidata 2½ to 2½-in. \$22.50
Taxus hickel 2½-in. 25.00
Thuja pyramidalis 2½-in. 20.00
Thuja pyramidalis, Imp. 2½-in. 20.00
Thuja pyramidalis 2½-in. 17.50

SHRUBS

Deutzia gracilis 2-in. 10.00
Euonymus radicans erecta. 2½-in. 12.50
Viburnum burkwoodi 2½-in. 35.00
2 per cent discount for cash with order, packing without cost.

THE HOLLANDIA GARDENS
South Vienna, Ohio

LINING-OUT STOCK.

Taxus hickel and Taxus cuspidata, rooted cuttings, 1-year open frames, 9 inches. Can be shipped at once. Sample on request.

\$35.00 per 1000.

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RHODODENDRONS. HARDY HYBRID GRAFTS FROM GREENHOUSE.

	Per 10	Per 100
America (red)	\$12.00	\$100.00
Dr. H. C. Dresselhuys (red)	12.00	100.00
Lee's Dark Purple (purple)	12.00	100.00
Mrs. C. S. Sargent (deep pink)	12.00	100.00
Catawbiense Album (white)	12.00	100.00
Catawbiense Grandiflorum	12.00	100.00
(Hiac)	12.00	100.00
Roseum Elegans (rose-pink)	12.00	100.00
President Lincoln (pink)	12.00	100.00
Roseum Elegans, 2-yr. trans.	Each	
12 to 15 ins.	\$2.00	
Rhodo. carolinianum 6 to 8 ins.60	
Rhodo. minus 6 to 8 ins.60	

HARDY HYBRID SEEDLINGS.

	Per 10	Per 100
4 to 6 ins., B&B	\$4.00	\$35.00
6 to 8 ins., bushy	6.00	50.00
8 to 10 ins., B&B	8.00	75.00
10 to 12 ins., B&B	12.00	100.00
12 to 15 ins., B&B	18.00	150.00

BUXUS SUFFRUTICOSA.

	Per 10	Per 100
4 to 6 ins., bushy	\$2.50	\$20.00
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HEMLOCK HEDGE (500 feet).
6 to 8-ft. sheared plants in good condition.
Good digging. Reasonably priced.

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COLORADO SPRUCE, all sizes up to 8 ft.
Arbovitae and Mugho Pine.

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PACHYSTANDRA TERMINALIS.

1-yr., field-grown Per 1000

2-yr., field-grown \$5.00

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HARDY CHRYSANTHEMUMS.

\$1.00 per 10; \$2.00 per 25.

Avalanche, Aviator, Betty, Bokhara, Bonfire, Chas. Nye, Chiquita, Clara Jameson, Dahlia, Early Joan, Helen, Exeter, Glittering Hills, Glowing Coals, Golden Rose, Golden Salmon, Gold Treasure, Golden Hours, Hilltop Gold, Honeycomb, Irene, Jayeff, Jewell, Judith Anderson, King Midas, Klondike Gold, Lola, Late Rose, Lavender Lady, Magnolia, Mandalay, Murnura, National Velvet, Olive Longland, Orange Cluster, Oriental Glory, Peggy, Robt Brydon, Red Velvet, Red Anemone, Red Riding Hood, Rose Mount, Rosita, Sequoia, Sunape, Sunkist, The Chief, White Wonder, Winterset, Violet, Yellow Spoon.

\$1.50 per 10; \$3.00 per 25. Buckeye Beauty, Purple Jewel.

ENGLISH VARIETIES.

\$1.00 per 10; \$2.00 per 25.

Alabaster, Alex Mason, Alpik, Assurance, Autumn Gold, Belle Mauve, Bronze McLeod, Bronze Frieda, Corona, Daily Express, Ella Friend, Golden Emperor, Golden Queen, Gold Standard, Harvest Moon, Hillcrest Red, Jean Harlow, John Baxter, Lutonia, Mayland Dome, Mrs. E. Pattie, Mrs. Percy Beer, Nettie Brooks, Phyllis Gold, Polly, Red Crusader, Scarlet Coat, Sunbeam, Sunlit, Sybil, Unique, Volcan, Wardown Bronze, Wendy, Yellow Gown.

GREENHOUSE VARIETIES.

\$1.00 per 10; \$2.00 per 25.

Hilda Bergen, Major Bowes, Roseum.
CUSHIONS.

\$1.00 per 10; \$2.00 per 25.

Apricot Glow, Queen Cushion, Yellow.
Cushion.

3802 Faraon St. St. Joseph, Mo.

MCININCH GREENHOUSES

HARDY CHRYSANTHEMUMS.
These are field rooted divisions and will give utmost satisfaction for potting for spring resale or lining out.

CUSHION TYPES.

	Per 100
*Bronze Cushion	\$4.00
*Pink Cushion	4.00
*White Cushion	4.00
*Santa Claus, bright red	4.00

TALLER, CUT FLOWER TYPES.

*Acacia, single, yellow, profuse	4.00
*Algonquin, double, yellow	4.00
*Autumn Lights, new bronze	4.00
*Clara Curtis, new pink Korean	4.00
*Caliph, double, red	4.00
*Dean Kay, early, pink	4.00
*Deanna, rose-pink	4.00
*Ember, glowing orange	4.00
*Hebe, early, pink Korean	4.00
*Irene, white pompon	4.00
*Red Kristena, large Korean	4.00
*Little Bob, bronze pompon	4.00
*Mrs. Morgan, double, chestnut	4.00
*Orray, bronze pompon	4.00
*Pygmy Gold, yellow pompon	4.00
*Reveler, India, red, Eng.	4.00
*Seminoe, early, white	4.00

All plants above, starred varieties only.
Field clumps, \$2.00 per 10; \$15.00 per 100.

NEW CUSHION MUMS.

Achievement, apricot tint, field div. 6.00
Champion Cushion, red-bronze, field div. 6.00
Major Cushion, bright pink, field div. 6.00

25 of a variety at 100 rate.

Minimum field divisions, 25 of a variety.
ELKHART NURSERY CO.

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HARDY PLANTS

GYPHOPHILA BRISTOL FAIRY.

Strong, grafted pot plants.

	Per doz.	Per 100	Per 1000
3¼-in. pots	\$3.00	\$20.00	\$180.00
25 at the 100 rate, 25 at the 1000 rate.			

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New and Standard Kinds.

A most modern and complete selection.

New Wholesale List now ready.

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America's Best Source

for Hardy Plants is

THE WAYSIDE GARDENS

Mentor, Ohio

Write for Trade List.

HARDY PERENNIALS. We are growers of both seeds and plants of hardy perennials in large assortment, many hundreds of kinds. Ask for Special Wholesale Price List.

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Pansies, perennials and rock plants in wide variety. Send for catalog.

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Bristol, Pa.

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PALMS.

Kentia forsteriana.

Kentia belmoreana.

Sand-grown, 5 to 6 inches, \$12.50 per 100.

\$110.00 per 1000. Immediate shipment.

Bare root, packed in moss.

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TAXUS CUSPIDATA SEEDS.

New crop just arrived from Japan.

\$6.00 per pound.

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PEACH PITTS for planting. Southern collected; high germination. Small, about 5,000 seeds per bushel, \$3.50; medium, about 5,000, \$3.00; large, about 4,000, \$2.50. RIVERDALE NURSERIES, Riverdale, Ga.

SEEDS OF HARDY PERENNIALS.

540 Varieties and Species

offered in our Special Wholesale Price List of perennial seeds and plants. Sent on request.

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Please mention the American Nurseryman when ordering from advertisement.

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Yellow Trollius and Thalictrum aquilegifolium, \$20.00 per 100; 500 for \$75.00. Azaleas: Altaclarensis, yellow mollis, schlippenbachii, occidentalis, 3 to 6 ins., \$25.00 per 100; 500 for \$100.00. Rhododendron hybrid seedlings, 4 to 6 ins., branched, \$30.00 per 100; \$100.00 for 400.

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SUPPLIES

KNOCK-DOWN FLATS.

Made from a good grade of Southern Yellow Pine, since Cypress is not available.

Standard specifications, inside measurements.

16x12x2½ \$16.25 per 100

16x14x3 20.50 per 100

20x14x2½ 20.00 per 100

20x14x3 23.00 per 100

22½x15x2½ 22.00 per 100

22½x15x3 31.00 per 100

All other sizes quoted on request. Prices F.O.B. Birmingham.

We are manufacturers, not jobbers. Freight to any point is a small item per Flat. Our

Flats are the best. Why pay more? Our

quality guaranteed. Prompt shipment, any

quantity. Attach check to order.

We make mixed shipments of flats, plant

boxes and spray boards.

HIGHTOWER BOX & TANK CO.

Birmingham, Ala.

MINNESOTA WHITE CEDAR FLATS

12x16x2½ \$15.25 per 100

14x20x2½ 22.00 per 100

14x20x3 25.00 per 100

Other sizes quoted on request. Also crating

and other lumber, Aspen and Pine. F.O.B.

Cook, Minn. Attach check.

H. C. HILL & SONS, Cook, Minn.

WISCONSIN'S QUALITY SPHAGNUM

MOSS.

Clean, long-fibered, solidly packed in bur-

lapped or wired bale of standard size,

direct from drying beds. None better.

Trucked when feasible.

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Get the Garden Store idea for additional

profits. We manufacture products direct

from forest to you. Arbors, pergolas, arches,

trellises, etc., are good business stimulators

and profit makers, best for outdoor display.

Write for designs and low prices.

TUNNEY & SON NURSERY Kenosha, Wis.

From the finest tidewater red cypress we've had in eight years.

HEART CYPRESS FLATS
VERY BEST GRADE—
ABSOLUTELY NO PECK

2 1/2 x 15 x 3 ins. Per set
3 slats for bottom.....\$0.33
4 slats for bottom......37
5 slats for bottom......41
This has been our most popular set.
Prices F.O.B. our plant at Mobile, Ala.
Shipped 10 sets per bundle.
Special prices on purchase of 10,000 or more.
Prices on any size or any type lumber on request.

Check with order, please.
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Department D
Box 1264 Mobile 7, Alabama

Summer is the time to build new low-cost shade houses, or to replace your old worn-out lath or slat houses with Brand-New Low-Cost Heavy Steel Wire Netting. This material is made of 16-gauge steel wire 2x6-in. mesh, furnished with steel wool and coated with high-grade enamel. Each roll is 75 ft. long by 8 ft. wide, containing 450 sq. ft. Inexpensive and easy-to-construct lath houses built with this netting provide uniform shade ideal for Azaleas, Camellias and for all other plants. Available for immediate shipment. Write for descriptive folder and prices to cover any quantity you may need from one roll to carlot shipments.

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IMPORTED CHINESE TONKIN CANES.
Strong—smooth—long-lasting.
The best Bamboo plant stakes.

Contents	Price per bale	per bale
4 ft., 1/2 to 3/4-in. diam.....	500	\$19.50
5 ft., 1/2 to 3/4-in. diam.....	250	14.75
6 ft., 1/2 to 3/4-in. diam.....	200	13.50
7 ft., 1/2 to 3/4-in. diam.....	150	15.25
8 ft., 1/2 to 3/4-in. diam.....	100	13.00

Bale lots only. Quantity discounts: 10 bales up less 5 per cent, 25 bales up less 7 1/2 per cent.

McHUTCHISON & CO.
88 Chambers St. New York 7, N. Y.

PLANT BOXES.

KNOCK-DOWN PLANT BOXES.
Ends of good grade southern Yellow Pine, sides and bottoms of one piece 1/4-in. Masonite.

Standard specification, inside measurements.
12x5x5\$12.00 per 100
15x5x5 15.00 per 100
All other sizes quoted on request. Prices F.O.B. Birmingham. Prompt shipment, any quantity. Attach check to order.

We make mixed shipments of flats, plant boxes and spray boards.

HIGHTOWER BOX & TANK CO.
Birmingham, Ala.

SPRAY BOARDS.

Good-quality spray boards, from southern Yellow Pine.

	Each
15x2 1/4 x 1/4	\$0.02
14x2 1/4 x 1/401

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TERRA-LITE, SPECIAL PREPARED VERMICULITE.

Amazing new garden discovery. Proved by tests at a leading university. Cuttings rooted from 3 days to 3 weeks sooner, with bigger, stronger roots! Old-time growers are amazed with results.

Big bags, approx. 4 cu. ft. or 2 bu.
5 bags, \$5.75; 10 bags, \$11.50; 20 bags, \$23.00.
Sample bag via express, prepaid, \$2.00.
"We ship same day."

YOHO & HOOKER Youngstown 2, Ohio

JUNIUS TOP DRESSING.

A machine-processed mixture of approximately 80 per cent slightly decomposed Peat and 20 per cent sharp sand. Preferred by many florists and nurserymen for seed beds, flats and work in heavy soil. pH 4.8 to 5. F.O.B. plant.

2 to 25 Four-bu. bags.....\$1.75 each
26 to 50 Four-bu. bags..... 1.65 each

JUNIUS PEAT CO.
60 Pearl St. Lyons, N. Y.

CAMOUFLAGE WIRE.

Excellent protection against frost and sun. Used over beds, shade houses, greenhouses, sales grounds, etc. with satisfaction by hundreds of growers. Rolls, 6 ft. wide by 75 ft. long. Consists of steel wool on pliable, welded wire fencing. Only \$5.00 per roll, cash with order. Large quantities at special prices.

TANKARD NURSERIES
Exmore, Va.

HEATSUM CABLE.

Roots more cuttings in less time; protects outside sash and water pipes; melts snow in gutters, on walks and driveways. Units available 60 ft. to 1,000 ft. long. Present your problems to our engineers.

L. ROBERSON CO.
1539 East 103rd St. Seattle 55, Wash.

NURSERY REQUISITES.

Budding, Grafting Supplies, "TRE-TEX," Hydrometers, Hygrometers, Magnifiers, Pruning and Spraying Equipment, Ladders. Catalog on request.

Since 1908.
TYSON ORCHARD SERVICE
Flora Dale (Adams County), Pa.

PEAT MOSS.

Highest-quality acid sphagnum peat moss weighing about 8 lbs. per loose bushel, 120-lb. hydraulic-compressed bales, \$3.25 each; 10 or more bales, \$3.00 each. Large burlap half-bale bags, \$1.50 each; 10 or more, \$1.50 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

HIGH NITROGEN HORTICULTURAL PEAT.
Unexcelled for soil-improving work. Used by leading growers for a quarter century. One 3-bushel bag, \$1.25; 10 bags, \$1.15; 55 bags or more, \$1.00 each.
COLBY PIONEER PEAT CO., Inc.
Hanlontown, Iowa

SPHAGNUM MOSS.

Clean, long-fibred, well pressed burlapped bales of standard size, \$1.25 per bale, F.O.B. City Point. Cash with order. Write for prices on large lots. Immediate shipment.
THOMAS RESHEL
City Point, Wis.

GIBRALTAR Frost Covers pay for themselves. Economical, long-lasting. Ideal for windbreaks. 6 ft. wide: \$9 ft., \$13.75; 100 ft., \$26.00; 150 ft., \$39.00. **NEW AMSTERDAM IMPORT**, 122 Chambers St., New York 7, N.Y.

PRINTING—Letterheads, Billheads, Statements, Cards, Envelopes, Tags, Blotters, Folders, Samples sent.
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MRS. FOOTE'S ROSE BOOK.
By Harriet Foote, \$2.00.
A great book by a great rosarian.
THE SCENTED GARDEN.
By Eleanor Sinclair Rohde, \$3.75.
Complete charts and instructions for aromatic plants.

CARL BRANFORD CO.
6 Beacon St. Boston 8, Mass.

FLORIDA CONVENTION.

[Continued from page 7.]

date on "New Insecticides and Weed Killers."

After each talk much useful information was had from open discussion of each topic. At the close of the session subjects pertinent to the nursery industry were discussed in bull-session style. A number of new ideas were offered, and the members took part freely. Monday night a full-course dinner was served to over 400 persons, and was followed by entertainment called "A Night in Cuba," music and dancing.

Concluding Session.

The second session was held Tuesday afternoon. Reports of committees were heard. E. Tinsley Halter, chairman of the standing committee on horticultural standards, stated that the committee had not been able to organize completely yet and requested that the committee be increased to at least six, or possibly more members, in order to do the work necessary in the three sections of the state, as the flora of each section is so different. The increase was authorized and the committee expects to function soon. Its work will be supplementary to the horticultural standards adopted by the American Association of Nurserymen, so as to cover more of the tropical plants.

Speaking on "Merchandising and Salesmanship," Fred C. Disher, sales

supervisor of the Burroughs Adding Machine Co., said that we are operating in a buyer's market and that we must go after business and not wait for it to come to us. He stressed the need for proper training of salesmen if we are to succeed.

Dr. O. J. Noer, Milwaukee, Wis., gave a fine talk on "Analyzing Our Fertilizer Program." He advocated more frequent analyzing of our soils in order to know definitely what elements are lacking in our particular soil.

A discussion on "Soil Conservation in the Nursery" was ably handled by Dr. F. B. Smith, of the Florida experiment station, Gainesville.

John B. Wight, Wight's Nurseries, Cairo, Ga., who is treasurer of the American Association of Nurserymen, gave some good suggestions on "Trade Promotion and How to Increase Demand for Our Products."

The committee on the fall trade meet at Orlando is to be continued under the able chairmanship of M. J. Daetwyler, Orlando. Plans are well under way for a much larger and better trade meet to be held at Orlando in September.

The convention closed Tuesday night with the president's annual banquet and ball and the installation of the new officers, which were attended by 405 persons.

The 1950 convention is to be held at Orlando.

NOTES ON SOME ALPINES.

[Continued from page 15.]

the alpinus clan. They are beautiful plants where their cultural needs can be met.

In answer to an Ohio correspondent's query on chaenorrhinum, my botany is too elementary to enable me to distinguish chaenorrhinum from linaria. Even the botanists have trouble with the two groups, for we find one plant called Linaria origanifolia by some and Chaenorrhinum organifolium by others. Judging the plants now generally classed as chaenorrhinum from the gardener's standpoint, the one best suited to general garden use is C. glareosum. First of all, it is the only one known to me that is at all reliably perennial, although it is a little too tender for our severe climate. A little farther south it should be long-lived if given a meager soil in sunshine. There it should make a mat of waxy, small leaves, with short stems of small, pinkish-lilac snapdragons for two months or more, beginning in June in northern Michigan.

An Indiana correspondent asks for the best ground cover for poor soil in

RUBBER HOSE

Good rubber hose has been a scarce item these past few years. We can now offer a superior article. Full, smooth inner tube, 2 braids, strong rayon cord and a fine-looking, green, wear-resistant, neoprene cover.

5/8-in., 50-ft. lengths.....\$10.25
3/4-in., 50-ft. lengths..... 14.75

We can make up odd lengths of hose—30 ft., 55 ft., 65 ft.—on order at 25c per ft. for 5/8-in., 28c per ft. for 3/4-in., or we can supply 250-ft. lengths, uncoupled, at 10 per cent less than the 50-ft. prices.

SOMERSET ROSE NURSERY, Inc.
P. O. Box 608 New Brunswick, N. J.

FULLER WHEEL HOE

More Work with Less Help
MULCHES—WEEDS—CULTIVATES
Weighs only 10 lbs. Works close on rows. Adjusts to operator's height. 9 1/2-in. bush wheel; 6-ft. Ash handle; 10-in. blade; 14-in. to 18-in. shipped; other sizes 6-in. to 14-in.

\$7.25

Costs less.
Weighs less.
Lasts longer.
Send for Catalog.
Best by 40 years' test.

FULLER WHEEL HOE CO.
So. Hamilton, Mass



• TREE FEEDING CHART •

Blue print, professional size, 18x24 ins. Shows how, amount and analysis of tree food to use per tree. Complete instructions on feeding trees.

Only \$2.00 postpaid.

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2217 Douglas St. Rockford, Ill.


PROLIFERO
Reg. U. S. Pat. Off.

For Treating Cuttings and Seeds Bulbs and Tubers

Scientific Growth Stimulant

Write for Free Booklet

SCHUYLKILL CHEMICAL CO. 2340 Sedgley Ave. Philadelphia 32, Pa.



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The only tiller with full h. p. motor to do your job.

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full sun where little else, not even grass, will grow. This is a large order, and one that I would not care to fill without some reservations. However, after going over all the plants that come to mind, I should like to suggest the southern European composite, usually known as *Chamaemelum tchihatchewi*, but sometimes as *chrysanthemum* or *pyrethrum*. No matter what the name may be, this plant is one of the most indestructible of the plants of equal value of which I know.

For the purpose the correspondent names, plants spaced a foot apart would make a solid mat of dark green, ferny foliage within a year. This simple description does not do justice to the beautiful leafage and makes no mention of the myriad, yellow-centered, white daisies, on 6-inch stems, which will emerge from the mat every year in early summer. Although I do not find the plant listed in any of the catalogs now in my files, it must be available in this country, for I had it at least fifteen years ago and distributed it to all sections.

Draba imbricata is a gem in a race of weeds interspersed with a few good garden ornaments. It comes from high places in the Caucasus, and is not often found in gardens; so, if one has true *D. imbricata*, he has something to cherish. Seeds should be handled in the usual way, being pricked out of the seed pan as soon as they are large enough to handle on the point of a thin knife blade and transferred to a mixture of sand and gravel with a little leaf mold. The soil should be kept moist from below, and the pots should be kept in a shaded frame until the rosettes are thoroughly anchored to the soil, when more sunshine may be given.

This care should produce tight rosettes of tiny leaves, rivaling an aretian androsace, the measuring-stick for beauty of rosette among all high alpine, and eventually almost stemless clusters of golden-yellow crossflowers. It takes some care to keep *D. imbricata* growing well in this country, but is worth the effort.

HELP WANTED—Small mail-order and house-soliciting nursery business looking for man with sales and business management experience and ability. Must have thorough knowledge of cold storage of shrubs, trees and perennials. We will consider partnership, profit-sharing arrangement or any reasonable offer. No capital is required. The business is established and prospering. We are looking for a capable person to run it. Letter must contain full qualifications, experience and at least four references. Address Box 629, care of American Nurseryman.

WANTED—To design landscape plans for nurseries on a 10-per-cent-of-the-cost-of-material basis. Send a rough sketch, giving exact dimensions, showing location of walks, drives, windows, doors, etc. Will design a detailed planting plan to scale. **H. J. BAKER, Landscape Architect, Crawfordsville, Ind.**

HELP WANTED—Experienced nurseryman who can take complete charge of outside work. House furnished, good wages. **CALL'S NURSERIES, Perry, Ohio.**

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Display: \$3.00 per inch, each insertion.
Lines: 25c line; Minimum order \$2.00.

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Large Connecticut Nursery. Splendid location on main highway. Close to three good-size cities. A well established and profitable business as well as a fine 125-acre property. Has lovely home. Is fully stocked and equipped and is a real bargain for only \$60,000.00. Terms arranged.

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SITUATION WANTED

Nursery manager available. Desires a connection or partnership in some progressive nursery. Wide experience in the nursery field. Primarily interested in the administrative end. Can install cost system to effect economy plus tax savings and handle the other aspects of administration. Married and have two children in the upper grade school. Am completing an advanced course in income tax accounting and personnel management. This interlude at college from employment is to increase my administrative abilities in the nursery field. Will be available the last of June or before if necessary. Further information on request.

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HELP WANTED

Well established nursery with landscape department and retail cash-and-carry business needs two or three men. Have a good live organization.

Head landscape salesman. Year-around job—good salary.

Good, efficient landscape designer and draftsman with some sales ability—good salary.

Experienced nurserymen for retailing and wholesaling on nursery grounds.

Experienced greenhouse helper. One that has speed and knows what to do. We operate a pot plant range.

Please contact: **ERNST NURSERIES, P.O. Box 648, Muncie, Ind.**

HELP WANTED

Full or part-time commission salesman; Iowa, Illinois, northern Missouri; able to sell planting jobs, seeding, finished grading, installation of ornamental iron and pipe railings, etc., small road-building jobs, covering state, county, municipality and individuals; opportunity of a lifetime for active, industrious person. Address Box 628, care of American Nurseryman.

HELP WANTED

Person capable of drawing landscape plans and carrying out to completion. Graduate landscape architect preferred. Doing business in eastern Iowa and western Illinois. Address Box 627, care of American Nurseryman.

FOR SALE

Fifty acres; 10,000 trees, 2 to 6-inch caliper; 20 miles south of Chicago on I.C. railroad and on 4-lane highway. Price, \$16,000. Address Box 626, care of American Nurseryman.

MORE SPRING REPORTS.

[Continued from page 11.]

ness this year compared with last year; however, we expect it to be equal or slightly better than last year.

"Our greatest difficulty this season was the express strike in the New York metropolitan area which prevented us from making express shipments early in the season. It seems unfortunate that this same trouble has hampered us now for the past four years.

"There was no labor problem in this locality this year; in fact, this was the first time since before the war that we were able to obtain all the help we needed.

"We hesitate to make any predictions as to demand for stock next season. There is much building going on, and general conditions will have a great deal to do with our market. We are preparing to produce about the same quantity of lining-out stock as we have in the past several years. As a matter of fact, we did not increase our production and have been without surpluses. Probably prices will drop a little. However, we fail to see how there can be much of a change when production costs are as high as they are now. No doubt there will be price cutting in some items, but no one can sell below cost for long and stay in business."

Plans to Reduce Prices.

An increase in production and a decrease in prices are planned for next season by Koster Nursery, Bridgeton, N. J. Emphasizing that he does not believe a recession is coming, James S. Wells, manager, describes plans to reduce prices on several types of lining-out stock.

"Business this season has been excellent. We have found a keen demand for practically all of the material which we are growing, with particular emphasis on large sizes of taxus, rhododendrons and azaleas. As could be expected, the demand has been strongest for finished B&B material, but we have had an excellent season also in lining-out stock of all kinds.

"We have not had more than our normal share of difficulties to overcome. By far the greatest has been a shortage of stock.

"We have altered our methods of shipping lining-out stock this year and have done away with the construction of large wooden crates. We have found that the standard orange crate is just as suitable, in fact, more so, and is much less expensive to both parties. Large orders are shipped in a number of these crates and, with-

RESULTS PROVE

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The Peat Moss with the "Growing" Reputation

NURSERYMEN all over America are getting the best roots and plants they've ever grown—by conditioning their soil with Premier Peat Moss. And they're also getting the best *transplanting* and *mulching* results. Premier Peat Moss is a *must* for liner beds, because Premier is pure sphagnum peat moss . . . 97% organic . . . free from weed seeds, insect life, fungus . . . with an average pH of 4. Moreover, Premier is **SUN-DRIED** to give it such amazing absorbency that it can soak up and hold as much as *20 times its weight in moisture!*

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***Can Be Carried In Any Car**

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SHRUB-GARD

An invention that protects your shrubbery from the menace of destructive corrosive action caused by dogs. Makes the dog's visit so uncomfortable that he keeps away, yet it is so constructed that it will not harm the dog. The SHRUB-GARD is a unit of steel spring wires that are flexible and will not tear clothing of passersby. Each SHRUB-GARD has three prongs and covers approximately two and one half lineal feet.

Harmless to dogs or humans.

Packed one dozen to a carton, weight 2 lbs.
Price \$3.00 per dozen.

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SAVES WORK!
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Plows, Discs, Harrows, Pulverizes — all in one operation. Makes a more perfect seed bed — increases yield 15% to 20%.



DOES MORE!
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Women or Children Can Operate It All Day Without Tiring. Weighs only 84 lbs. Turns easily in 8" radius. No other Tiller Can Operate So Close to Tree, Vine, Shrub. IDEAL for Landscapers, Gardeners, Nurserymen, Contractors, All Growers and Estate Operators (up to 5 acres).



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out exception, have arrived in excellent condition.

"We look forward optimistically to next season. We do not concur with the suggestion heard frequently that a recession is around the corner. We do believe, however, that a decline in prices is inevitable, and next fall we intend to set prices distinctly lower than those at which we sold our stock last season. We plan, for instance, to reduce prices on lining-out stock of magnolias, pink dogwood and 2-year-old rhododendrons and azaleas—all items in keen demand. At the same time we are maintaining top production, and we hope and believe that in this way we shall be able not only to maintain this season's good figures but also substantially to improve them. We are not dropping our prices blindly. We have established a cost accounting system which at this time can and does show us clearly that we can afford to reduce our prices moderately and still operate at a profit. The fact that our production figures show this is caused largely by our switch to mechanical planting and the use of machines in other parts of our production activities.

Shortage of Larger-size Stock.

C. Willard Stoner, of Westminster Nurseries, Westminster, Md., comments on the increase in demand and the shortage of good-size stock this past spring which forced the firm to sell a smaller grade of stock. He writes:

"In general, the demand for ornamentals in this area reached its peak this spring, we believe. We noted in particular that our customers ordered in larger quantities than heretofore, while at the same time the supply of stock was short, especially in sizes from three to four feet and up to and including six to seven feet, and we were forced to offer for sale a smaller grade of stock, which was accepted in most cases.

"We believe that the tremendous building program which was in progress during the year of 1948 began to affect the nursery trade this past spring. We are serving nurseries, jobbers and landscape planters in both Washington and Baltimore areas, where the demand for landscape material has been stepped up to a point beyond our expectations. This resulted in a busy season, espe-

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NATURAL RAFFIA COLORED
DISPLAY GRASS MATS
CUT GRASS
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1909 — 40th Anniversary — 1949

cially since it was wet throughout March and April causing considerable loss of operating time in the field. However, we found labor conditions to be improved and have obtained all the men we need for our regular course of operation.

"In view of the large quantities of our smaller stock being sold this past spring, we cannot help but foresee shortages again for fall, 1949, and spring, 1950, with the demand still being greater than the supply. We do not anticipate any price reduction among ornamental stock, shade or flowering trees. On fruit trees and small fruits it is unpredictable. All in all, it appears that we are moving stock out faster than we are able to produce it to salable size, and it seems that this condition will confront us for the next two years.

"We are operating approximately 500 acres and are well supplied with young material growing in the fields. We are maintaining a normal schedule of propagation. However, we are increasing on some of the better hard-to-get items."

Normal Season in Virginia.

Sales volume was maintained this year at Waynesboro Nurseries, Inc., Waynesboro, Va., although orders averaged smaller and commercial fruit growers were late in placing orders. E. M. Quillen describes the firm's season as follows:

"Our spring shipping season has been normal with the exception of an unusual demand for small fruits. Business was slow in January, but, in general, picked up in February and continued brisk. A large percentage of the commercial fruit tree business did not come in until near the end of the season. We attribute this to growers' delaying making obligations until prospects of a fruit crop could be determined.

"The past winter was one of the mildest we have ever experienced. Fruit trees bloomed early, increasing the danger of late spring frosts, but most fruits came through without serious damage, and fair crops are anticipated.

"We were able to start spring shipments early and to continue later than usual because of our cold storage which made it possible to hold our deciduous stock in dormant condition.

"The average size of our orders was slightly less than it was a year ago, but the total volume was practically the same. Little effort was required to sell ornamental stock, so we concentrated on fruits, which were sold chiefly to home orchard planters.

"Labor is more plentiful this year;

Williams & Harvey's

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WRITE for details and prices. Let us tell you how this amazing new equipment will save time and make money in your business.

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15% WETTABLE PLANTthion (For Outdoor Use Only). For use as a spray by outdoor growers. Good control of cyclamen mite on delphiniums, red spider on evergreens, azaleas and hydrangeas, etc. Use from 1/2 pound to 2 pounds per 100 gallons.

4-lb. bag.....\$7.00

2% PLANTthion DUST (For Outdoor Use Only). For ornamental crops for those who prefer to dust. 20 to 35 pounds are used to the acre.
25 lbs.....\$10.00 50 lbs.....\$18.00



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Safe "SURE-WAY" TO KILL PLANT-PESTS

New U. S. Patented, spray concentrate! Dilutes up to 1 to 800. Controls both chewing and sucking insects. NOT A POISON; yet it kills almost every known plant pest with its amazing paralytic action.



- Safe to use on edible crops, fruits, vegetables!
- Won't burn or discolor the most delicate plants!
- Will not affect genetics of plant life! IT'S SAFE!

Stock HYDRONOX!

**It SELLS and
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If your wholesaler can't supply you, write direct to Dept. 410.



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however, the quality is not yet the best. We are fortunate in having sufficient labor to do our planting in time. We have had ample rain and good stands.

"This spring we lined out a normal amount of stock, possibly increasing some varieties of broad-leaved evergreens. Because a large number of new homes are being built, we expect the demand for ornamentals, small fruits and fruit trees in home orchard quantities to remain strong. Costs of production have not decreased, and we see no possibility of reducing prices on a large scale. However, some adjustment possibly could be made."

Evergreens in Demand.

H. J. Timmons, Buntings' Nurseries, Inc., Selbyville, Del., reports that popular varieties and sizes of evergreens have sold unusually well and that twice as many might have been sold if they had been available. He writes:

"We have experienced a good demand for ornamental stock. Evergreens of popular varieties and sizes have been in exceptionally good demand, and we could have sold perhaps twice as many if they had been available. Hedge plants, flowering shrubs and roses also have cleaned up well. In the fruit line, sales of peach and apple trees have lagged, but cherry and other tree fruits have moved fairly well. Small fruits, particularly strawberries, have sold exceptionally well.

"In our area, commercial plantings of fruit trees are largely responsible for moving the crop, and, when commercial growers are not planting, a surplus of trees in the hands of nurserymen usually results. If weather conditions are favorable during the harvesting period, most orchardists should realize a good profit from the sale of their fruit this season. In such a case, we believe the fruit tree demand will be more like normal next year because the orchardists will have some incentive to plant.

"We anticipate having our normal supply of most items for next season's sales. Prices should remain steady. Our cost of production continues high, and about the only way to reduce cost is through more efficient use of manpower and machinery. We anticipate but little change in price schedules for next season's delivery."

Volume Increases Thirty Per Cent.

Because of a thirty per cent increase in the volume of business this spring, Pallack Bros. Nurseries, Inc., Harmony, Pa., found it necessary to eliminate its retail operations and

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Cloth Tape for use where Steel Tape accuracy is not required.

50 ft.....ea., 75c; doz., \$8.00

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Bartlett No. 44 Pole Saw
With 16-inch
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Pole 6 to
16 ft. long

concentrate on wholesale business. A. L. Pallack writes:

"In the supplying of both lining-out stock and finished stock to the trade our business was more than thirty per cent higher than that of the spring of 1948. We found it impossible to handle both the retail and the wholesale trade and, therefore, made a change to servicing nurserymen only.

"There was, and still is, a strong demand for growing on lining-out stock, and for well grown finished stock of all types, particularly evergreens and shrubs which are used in foundation plantings.

"Labor was more plentiful this spring than it was last year, with many men showing more of a willingness to work and to keep their jobs because of the slowing down of the mills and factories in this area. Although some labor which was used for planting and cleanup work was hired at a rate lower than the premium rate paid during the past few years, wages paid for experienced help remained high.

"We are growing on more stock than last year to meet a demand for semifinished items. Before the present year is over, we expect to be sold out on some types of liners, as well as on certain finished stock, such as yews and all spreading junipers, for spring, 1950, shipment.

"The present level of prices should continue at least for the coming year, with some reduction on plants of which there is an oversupply. Due to the fact that experienced help is practically unavailable, plants which are propagated with any difficulty at all will remain short in supply, and, consequently, the price will remain at the present high level."

Big Sales of Small Fruits.

The demand for small fruit plants was strong at Krieger's Wholesale Nursery, Bridgman, Mich., according to A. W. Krieger, who reports:

"May 20 finds us at the close of another busy season. Heavy demand for most types of small fruit plants exceeded the supply in many cases. The hot weather in early May curtailed the shipping season when it was at its peak.

"The past season has been one of the biggest in the history of our firm. Spring planting weather has been favorable, and all the nurseries in this area should have completed their spring planting without any difficulty.

"The type of labor we employ is still not too plentiful, and the wage scale remains the same as in past seasons.

"Prices should remain at about the

Announcing a new **SUPERIOR BRAND** of

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Ideally suited for nursery, garden or home use!



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ATTN. DISTRIBUTORS: Territories open. Write for profitable details and prices. Nationally advertised. Fully merchandised. Write or wire today.

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EASIER, FASTER WORK

This Garden Shop Hand Truck is so widely used today that few nurseries are without it. Many have several, use one on each delivery truck, others in the nursery.

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Now you can get this popular truck at once. Speed up work, save labor cost with this practical and especially designed equipment. Sturdy, strong, attractive in appearance, built for many years of profitable service. Order direct, today.

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Equipped with Jumbo Balloon Tires and Tubes, 12x4 inches.
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Weight 46 pounds.
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\$37.50 F.O.B. Kansas City.

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RUBBER BUDDING STRIPS

Gauge	Width	Length	10 to 50 lbs. per lb.	50 to 100 lbs. per lb.	100 lbs. up per lb.
.010	3/16-in.	4 ins.	\$1.60	\$1.40	\$1.20
.020	3/16-in.	4 ins.	1.40	1.20	1.10

WAYNESBORO NURSERIES

Waynesboro, Virginia



E-Z-GARDS

*The Fence Designed
with You in Mind*

Self-supporting—no stakes or posts. Set them up in a jiffy wherever you want protection and beauty. Use them along walks to discourage traffic from crossing your lawn. Set them around evergreens and shrubbery to ward off dogs. Use them as edging for flower beds.

E-Z-GARDS are made of heavy-gauge enamel wire, welded into sturdy and durable units, 21 inches high and 20 inches long. When set up the height can be varied from 12 to 15 inches.

They interlock, forming a continuous fence, or can be used as single units.

E-Z-GARDS are finished in 4 pleasing colors—Lawn-green, Sunshine-yellow, Tangerine and Hibiscus-red. Their artistic design and gay colors will beautify any spot where they are used. We also have galvanized Gards for conservative buyers.

If our factory representative does not call on you, write us for literature and dealer's price.

BROADWAY MACHINE & MFG. CO.
SHELBYVILLE, INDIANA



**AS COMPLETE A STOCK OF NURSERY TWINES
AS CAN BE FOUND ANYWHERE**

GEO. B. CARPENTER & CO.
446 NO. WELLS STREET • CHICAGO 54

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OPEN-END CATALOG

SEED PACKET

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present level in order to offset the high cost of production."

Sales Better Than Expected.

All types of ornamental stock sold exceptionally at C. M. Hobbs & Sons, Inc., Bridgeport, Ind., according to the following report:

"We have experienced a much better season than we thought possible at the beginning of spring shipments.

"All types of ornamental stock have sold especially well. Fruits were slow to start, but picked up as the season advanced.

"Help has been more plentiful, but not much better in quality, this past year.

"Our plantings this spring are about the same size as usual. We do not anticipate much change in prices for the fall season. Some varieties will be short for fall, especially larger sizes for landscape planting."

Shortage of Salable Stock.

A much more satisfactory spring season than had been expected is reported by Miles Bryant, Arthur Bryant & Son, Princeton, Ill., who writes:

"We are glad to report that we have had a much more satisfactory spring season than we had anticipated if we had not lost what we did from pated. For a number of years we have realized that we were going to be short on salable material this spring, particularly on salable sizes of evergreens, and we had anticipated a drop in our sales for that reason. We are not going to be able to bring our sales up to those of a year ago, which were completely satisfactory, but it looks now as though we will be only about two or three per cent short of that figure.

"Sales did not look too good to us during the late winter. Advance sales had been about average, but for the month or six weeks preceding the opening of our shipping season they dropped materially, and by March 1 they were well behind what we had been led to expect. However, when the planting season did open, the orders came in much faster than we had expected, with the result that we had one of the best cleanups this year that we have had in many years. Deciduous stock moved much better than usual, and the cleanup in this line was particularly good. Of course, we did not have any evergreens left. There was some surplus in apple trees, but they were about the only items which did not clean up well. Roses sold slowly, but total sales were fairly good.

"Until mid-May, when we had had some showers, the weather had been dry since the Easter snowstorm,

and lining-out stock put into the field this spring had started slowly. It apparently is growing reasonably well now. Established material, on the whole, has been making a satisfactory growth. We are surprised at how well some of our evergreens are doing.

"All in all, this has been a successful spring season for us."

Labor Supply Ample.

A plentiful labor supply at J. V. Bailey Nurseries, St. Paul, Minn., enabled the firm to make more rapid deliveries than usual, according to Gordon Bailey, who reports:

"We are just completing a season which is equal to last year and which, I believe, will show an increase before we are entirely through. Our supply of several items was below normal because of the effects of winter injury in 1948, but the increased demand for ornamental evergreens and shrubs seems to have offset our shortages. We had an extremely heavy demand for specimen evergreens in this locality.

"Our labor supply has been ample all season, and this has enabled us to keep up on our deliveries more efficiently than usual.

"We are anticipating a normal supply of stock for the coming year in all lines except specimen evergreens for which we can see no relief for the next two or three years."

Steady Demand in Minnesota.

A steady demand for stock and a plentiful labor supply during the spring season are reported by Ken Law, manager of Jewell Nurseries, Inc., Lake City, Minn., who writes:

"Our volume was up sharply for last fall's delivery and showed a moderate increase for this spring's delivery. Demand remains good for most of the stock we grow here, and our sales consist principally of this stock of our own growing.

"We find plenty of help available, most of it being of good quality and experience to do our kind of work.

"Our plantings do not vary much in total or over-all quantity from year to year, and we are holding steady on propagation and planting programs at this time. With the demand stable as it is, we do not see why prices should change materially for the coming season."

Selling Season Shortened.

In reporting conditions at Andrews Nursery Co., Faribault, Minn., C. H. Andrews comments that warmer weather and less rainfall than normal curtailed the spring selling season. He writes:

"The demand during this past sea-

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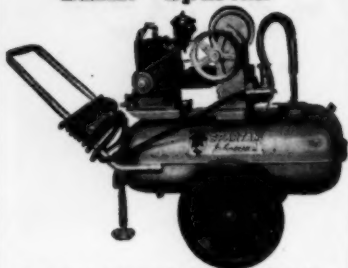
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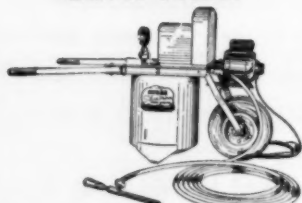
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No. 4502—ER. With 3/4 H.P. Gasoline Engine 200.00
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A very high grade powerful sprayer. Pressure 300 lbs., capacity 4 gals. per minute. Unit comes complete with spray nozzle, shut-off cock and 18-in. extension spray rod. Supplied with either 1 H.P. electric motor or 1 1/2 H.P. gasoline engine. 25-gal. model is 20 inches wide, 50-gal. model is 31 inches wide.
Model H-1. 25-gal. stationary \$300.00
Model H-2. 25-gal. portable 325.00
Model H-3. 50-gal. stationary 335.00
Model H-4. 50-gal. portable 365.00
Model H-5. 50-gal. portable, with tractor hitch 375.00

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son has been good for both wholesale and retail material, especially for ornamental stock, but higher temperatures and less rainfall than normal have tended to shorten the spring selling season.

"The supply of labor is short, due in some measure to building trades' activity. Next year we shall have about the same quantity of stock in fruit trees as last year and possibly a few more shrubs, but we are short on evergreens. We think that business in our territory next season should be as good as it was last year."

Kansas Season Opened Late.

Kansas nurserymen who usually have completed much of their spring work by the end of March, could not begin work until April 1 this year, reports H. S. Crawford, Willis Nursery Co., Ottawa, Kan., who further comments on the season as follows:

"We enjoyed a successful spring season this year. Although it started late, the demand held up well. We found the demand for evergreens and shrubs exceptionally good this year, and we had a good cleanup on practically all items except fruit trees. The weather last fall was ideal for the nurserymen in this area: I think most of them enjoyed one of the best fall seasons in their history.

"It was April 1 before any of the nurserymen could start their spring work. Usually we have much work completed by the end of March. However, on the whole, I think the nurserymen are well pleased with the business they have enjoyed this past season.

"Labor was more plentiful than it has been, but the quality still is not what we would like to have. We are making a normal planting and expect prices to remain about the same as they were this season. Of course, there probably will be minor changes on a few items."

Little Stock Unsold.

At the end of the shipping season at Portland Wholesale Nursery Co., Portland, Ore., little stock, except fruit trees, was left unsold, according to A. H. Steinmetz, manager, who writes:

"Our spring business has been somewhat better than we expected it would be, and, with the exception of fruit trees, little stock was left unsold at the end of the shipping season. We think this is true of wholesale nursery business in general in the Pacific northwest area, and there is, therefore, a general feeling of optimism at this time.

"Retail nursery business, from what we can learn, has been good in the

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Pacific coast area. I have just returned from two weeks in central California where our customers are still busy, and most of them report that their requirements for fall will be somewhat heavier than usual.

"There is no doubt that the vast building program, both of homes and commercial enterprises, is responsible for the demand, and it would seem likely that nursery business will continue to be good unless there is a general depression.

"The extremely cold winter caused heavy losses, but apparently these losses have been offset for the most part by the favorable selling conditions during the spring.

"High freight rates present a problem here in the Pacific coast area just as they do in other parts of the country, but our customers are still willing to buy, providing material of good quality, properly graded and carefully packed and shipped, is supplied.

"It is our opinion that nursery business on the Pacific coast probably will continue in a healthy condition for another season if both wholesalers and retailers operate conservatively and remain in a position to reduce operating expense and overhead quickly if it should be necessary to do so."

Freeze Cut Rose Crop.

Although many roses were lost in the field during the severe winter freeze on the Pacific coast, E. (Mike) Dering, Peterson & Dering, Scappoose, Ore., writes that his firm had a complete sellout on salable stock and that bushes now in the field are showing good growth. He reports as follows:

"We had the most severe winter-weather during January and February that we have had in seventy-seven years. We lost many roses in the field which had not been dug. However, we had enough snow on the ground to protect our buds, and, at the present time, our 2-year-old crop looks fine. Plants are about two weeks ahead in growth because of the warm, dry spring we have enjoyed to date.

"The roses which we were able to dig were completely sold out, and I believe that we could have sold more the freeze.

"When our local shipping season opened March 1, we were busy twelve hours a day filling orders because, of course, everyone wanted his roses shipped at the same time. But, we were able to fill our orders about on time.

"I believe that the supply of roses on the Pacific coast is about equal to what it was last year, possibly a little greater. In my opinion, next

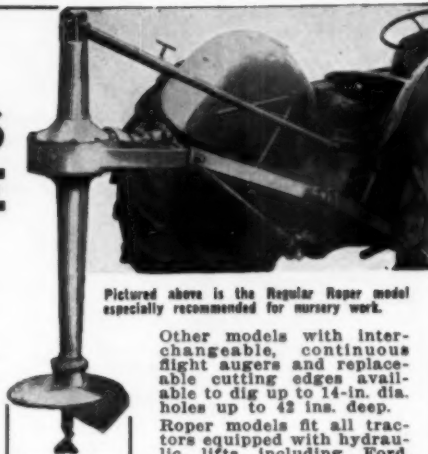
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17229	Red	5 ins.	$\frac{3}{8}$ -in.	.010-in.	2900	
17405	Red	3 1/2 ins.	$\frac{1}{4}$ -in.	.016-in.	1950	
17404	Red	4 ins.	$\frac{3}{8}$ -in.	.016-in.	2250	
17406	Red	4 ins.	$\frac{1}{4}$ -in.	.016-in.	1700	
17411	Red	5 ins.	$\frac{3}{8}$ -in.	.016-in.	1900	
17407	Red	5 ins.	$\frac{1}{4}$ -in.	.016-in.	1350	
17143	Red	4 ins.	$\frac{3}{8}$ -in.	.020-in.	1800	
17231	Red	5 ins.	$\frac{3}{8}$ -in.	.020-in.	1450	
17403	Red	6 ins.	$\frac{3}{8}$ -in.	.020-in.	1080	
17408	Red	8 ins.	$\frac{3}{8}$ -in.	.020-in.	450	
Prices:			.010-in. Gauge	.016-in. Gauge	.020-in. Gauge	
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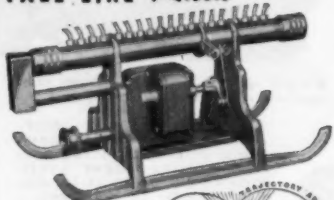
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season's prices will remain the same because the cost of all materials and labor certainly is not decreasing. However, I believe that we all will have to be better growers and learn to use more mechanized equipment in order to keep up with our competitors.

"We did not increase our plantings on 2-year plants for budding, and our stand of cuttings planted March 1 is only fair. Ordinarily, we like to plant in the fall, but were not able to do so during this past busy season. We feel that with fall planting we obtain from a ten to fifteen per cent better stand than we do with spring planting.

"We are going into the growing of multiflora roses for fence hedge purposes on a large scale because there seems to be a strong demand for these roses for hedge row and fence row purposes."

IRIS SOCIETY MEETING.

As a feature of the convention of the American Iris Society, May 14 to 16 at the Multnomah hotel, Portland, Ore., nurserymen visited Schreiner's Iris Gardens, Salem, and Cooley-Kleinsorge Gardens, Silverton, May 14. An outdoor barbecue was held that noon at Silver Falls state park.

On the second day the nurserymen visited the national iris gardens on Cooper mountain, near Beaverton, before attending a luncheon at Oregon State College, Corvallis. They also toured Fred DeForest's Gardens, Alpine, and the state capital, Salem.

During a tour of Mount Hood, the nurserymen stopped at Walter Marx Gardens, Boring, and Jan de Graaff's Bulb Farms, near Sandy. Luncheon was held at Timberline Lodge, Mount Hood. The tour ended that evening at the private gardens of Dr. and Mrs. M. C. Riddle. Dr. Riddle was chairman of the convention.

MANAGING director of the Boyce Thompson Institute for Plant Research since the founding of the institution twenty-eight years ago, Dr. William Crocker retired from his post May 25. He will devote his time to his 3-acre home near Canton, Pa. Founded by the late Col. William Boyce Thompson for the purpose of improving the world's living conditions through knowledge of plants, the institute today has a staff of twenty-five persons, a library of 20,000 volumes, a 3-acre experimental farm, 265-acre arboretum and up-to-date laboratories.

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